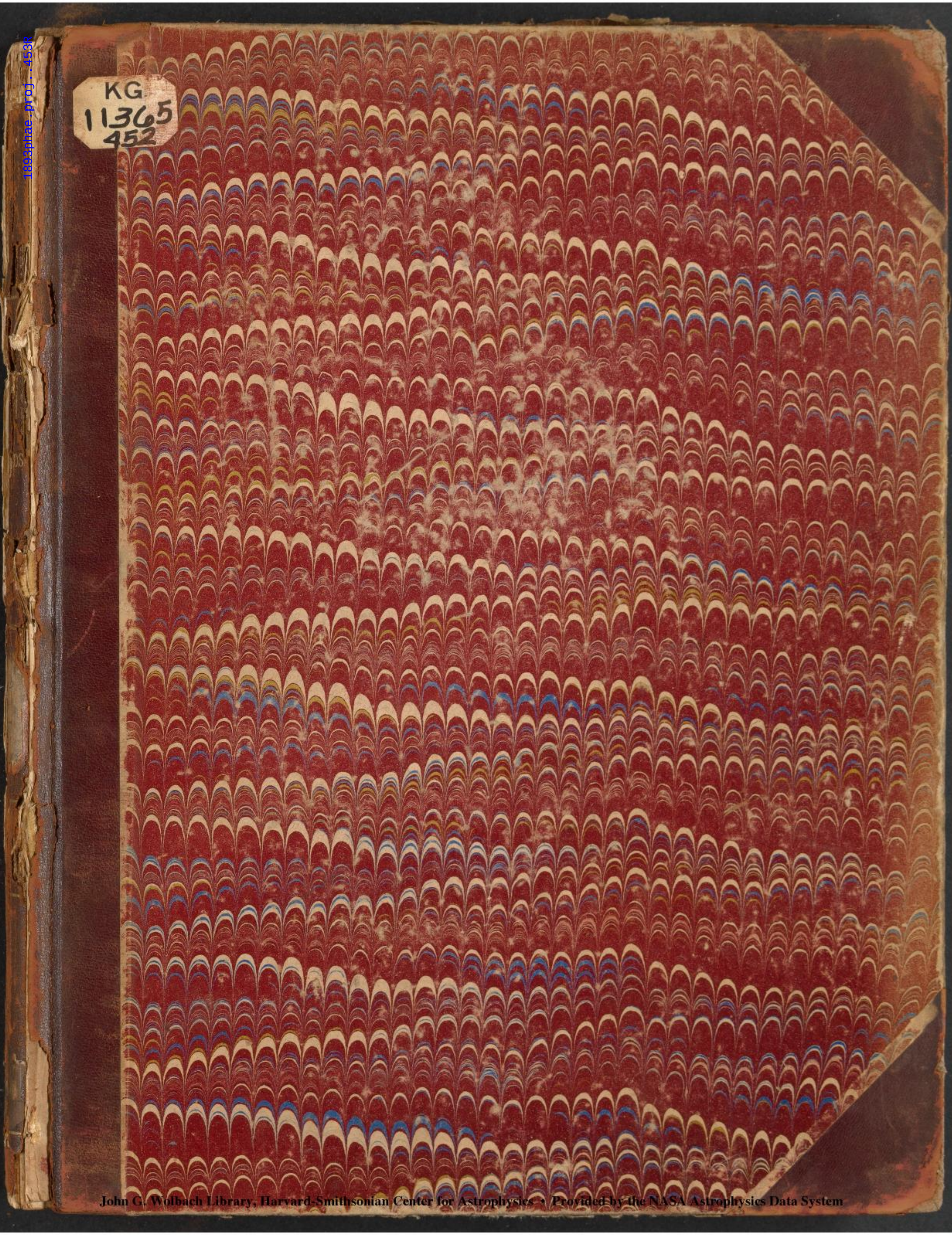
KG
11365
452



KG 11365452

6
7
8

10

20 – 31
32 april 2
33 4/3
34 4/3
35 4/3
36 4/3
37 4/3
38 4/3
40 4/16
41 4/16
42 4/16
43 4/17
44 } 4/30
45
46
47
48
49
50
51 5/1
52 5/2
53 – 62 } 5/11
63 – 65 } 5/14
66 67 } 5/15
68 – 83 } 5/18
84 85 } 5/22
86 88 } 5/23
89 – 92 } 5/27
93 – 95 } 6/5
96 – 99 } 6/28
100 — 101
102 7/8
103 7/9
104 – 111 } 7/15
112 – 118 } 7/19
119 – 125 } 7/24
126 – 137 } 8/7
138 139 } 8/9
140 141 } 8/10
142 145 } 8/13
146
147 – 154 } 8/24-25
155 157 } 8/28 changed
158 159 } 9/5 2
160 – ~~163~~ 164 } 9/10 expure.

165 166 } 94/9/13 2 R Carsing.
167 14 6 Ed. 107 - 6794.
168 94 10 10 2
169 175 } 94 10 12 4
exp. # .30
oil .50
176 177 } 15 .02
Boston 1.14
178 180 } 21 .0.3
181 182 } 94 10 30 .0.2
press 0.1 0
183 185 } 94 10 30 .0.2
186 94 11 3 .02
187 – 189 } 11 4
Camforms 1.14
oil 0.30
press 1.00

~~94 11 3~~
190 191 } 94 11 30 .02
192 193 } 94 12 5 .02
194 195 } 94 12 21 .02
Camforms 1.14
196 – 204 94 12 24 .04 (144 Comparison stamp changed)
94 12 30 .2
205 – 211 } 95 1 1
212 1 3 .02
213 1 8 .02
214 217 } 95 1 20 — .02
.10
218 236 } 95 2 1 — .04
Boston B 1.04
oil .30
Tele .30
.02
237 2 7
238 239 } 2 8
240 241 } 2 12
242 245 } 2 16 .02

Wm Maxwell Reed

Record Vol VI

West Equatorial

On & after Feb. 11 1894

Abbott Academy Telescope

$5\frac{1}{16}$ in Aperture

KG11365.452

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Tuesday Dec. 26 1893

modification Photometer I

2684 ✓ S Canis Min

m 2 β Canis Min

β 2 n

β ......

m .. 6ii in

8.8 +1
8.5 −2
8.9 +2
8.7

f ξ v

e 5 g

e 4 v

Seeing very poor & cold. H

845 ✓ R Ceti

v invisible

φ visible = 11.0 mag.

m H

6152 ✓ R Sagittarii

η 4-5 v

v = 11.5

H

112 ✓ R Andromedae

u = v

v 4 w

v = 11.3

H

272 ✓ R Arietis

v invisible

T visible = 12.

243 ✓ U Cassiop

ξ 1 v

v = 9.8

Tuesday Dec. 26 1893

✓ R Persei 1222 M H
h LV
v5K
v = 9.2

β Canis Minoris
Phot. I′

on scale of HP carried down by Light Scale
m = 10.6
n = 10.9
∴ β Canis Min = 10.75 as seen through Phot. I′
β " " = 3.07 according to H.P.
∴ Constant = 7.68 $^{\text{mgm.}}$

Wednesday Dec. 27 1893

Phot I′
R Cassiop

s 2 α α = ζ Caissiopeiae = $\overset{\text{mgn}}{\overset{\text{mP}}{3.74}}$
α 4 t

q 4 β β = η Cassiopeiae = 3.64
β 2 s

α + β were seen through Phot. I′. The other stars through the $6\frac{1}{4}$ inches.

q = 10.74 α = 11.6 as seen in Phot. I′
s = 11.48 β = 11.2 " " " " "
t = 11.80

Dec 29 1893 Friday

Reappearance Jupiter I

Before Chron- Comparisons.

B 236			F 1327		
6	18	31.0	6	23	0
6	20	1.0		24	30
	21	1.0		25	30

observed time of Reappearance 6^h ~~12~~ 37^m 14^s

Light clouds were passing over Jupiter for several minutes before and during the reappearance. Definition, however, was fair.

After

B 236 h	m	s	F 1327 h	m	s
6	48	1	6	52	31
6	49	31	6	54	0
6	50	31	6	55	0

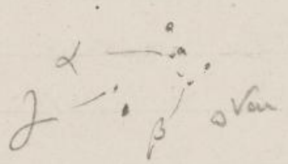
observed time of reappearance 6^h 37^m 14^s by B 236
B 236 slow + 4 29 referred to F1327
F1327 slow + 0 37
True Time of Reappearance = 6^h 42^m 20^s Camb. Sid. Time.

Sunday Dec. 31 1893

Perseus $(1^{h}\,55^{m}, +56^{\circ}$ (1900)

#2

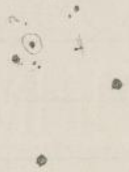
Looked for var. by aid of photograph. Could not see it, although at times I thought I caught glimpses of a star in its place. I could see without difficulty all the faint stars in the immediate neighborhood that are in the photo. and many more besides.



Var. { than α, β, or γ. H

Seeing was not at its best.

#1 +54.431



#12

α 5 v
v 4 ε

2H

Seeing very poor.

Sunday Dec. 31 1893

J.D. 2412829

13.4 2266 ✓ ✓ Monocerotis 4
b 5 v
v 1 c
v = 6.9

13.5 2684 ✓ S Canis Minoris 4
e ~~4~~ 3 v
v 2 f

13.6 ✓ S Persei 4
c 5 v ~~8.4~~ 12.9
v 2 d 11.4
24 3
12.1 = 8.9 magn.

13.7 ✓ R Ursae Majr 4
v 2 p 43.9
0 3 v 42.2
0 1 n 6 1
43.0 = 10.3 magn.

13.8 ✓ T Ursae Majr 6
v 2 e 13.4 = 7.9 magn.

13.9 ✓ S Ursae Majr 4
d 5 v 13.7 = 8.2 Magn. ~~9.2~~

Passing light clouds make this obs doubtful.

Monday Jan. 1 189~~3~~4

J.D. 2412830

14.0 √ S Boötis
Invisible seeing very poor
m visible = 11.7 mgn L

14.1 √ R Camelop.
v 1-2 b 3.7 = 8.1 mgn L

14.2 √ R Draconis
v = e 18.4
v 4 f. 18.1 / 18.2 = 8.5 mgn. L

Meteor
white trail through field. Magn = 5.
15:18 motion = N. ~~& [illegible]~~ speed = medium.
S.T. = 10h 22m H.A. = 4h 13m W α = 2h 12m + 50°

15.4 √ S Persei
d' v.
v 2 d 11.4 = 8.8 mgn. L

~~X~~ # 2 Perseus.
Invisible.
The three faint stars visible. L

2946 √ R Cancri
16.0 a = v
v 4 d
V = 8.0 L

Tuesday Jan. ~~3~~ 2. 189~~3~~4

√ R Arietis

782 v seen by glimpses H

10.4 h 1-2 v

v = 13.3

v 6 x (see)

x 6 h (see)

243 √ V Cassiop

10.6 H

v =
v = 9.5

√ T Cassiop

h = v 27.3 H

g 5 v 28.1

v = 8.7 154 27.7 = 9.3 mag

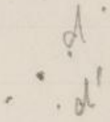
√ S Cassiop

Invisible < 12. H

√ S Persei

d' 2 v

v 1 d 12.4 = 8.9 mag



2

11.0 v Invisible < 13.0

α, β & γ invisible

Tuesday Jan ~~13~~ 2 189~~3~~4

✓ R Aurigae

11.1 ~~11.1~~ g 3 v H

v = h

v = 8.8

33.6
34.3

7 9
33.9 = 9.6

2625 ✓ V Geminorum

11.~~1~~2 α 4 v H

v 5 m

v = 11.9

11.3 2528 ✓ R Geminorum

w 1 v H

v = 13.

Monday Jan. 8 189~~3~~4

2412837
13.0 & 7120 ✓ / χ Cygni
g 2 v
v = 7.7
LZ

12

Sort of former brightness of ξ

13.2 74 ξ

k 4 v
v 1 β
v 5 v
L

better not use k as comp star it is unnecessary.
v = 7.8

13.6 7428 / √ Cygni
v 2 l
Z L
v = 10.0

13.7 7299 / U Cygni
g 2 v
v 2 h
L
v = 8.7

13.8. √ R. Pegasi
not seen w. certainty
y seen w. out difficulty
v < 12.7
H

Monday Jan 8 189~~3~~4

13.9 8373 ✓ S Pegasi H
v invisible < 13,
S visible

14.0 114 ✓ S Ceti L
d = v
v 3 e
e = −10° 26′
v = 8.1

14.1 893 ✓ U Ceti L
a 4 v
v 2 b
v = 7.3

14.2 806 ✓ O Ceti L
v 20 c

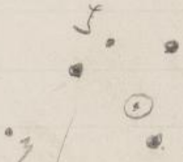
14.3 845 ✓ R Ceti L
v invisible < 12.7
X (sec) seen

14.5 112 ✓ R Andromedae L
m = v
v 4 0
v 3 f (sec)

p.m. Monday Jan. 8 189~~3~~4

14.6 R Andromedae
m 2 n'
n' 5 o
o 3 m
n 2 p

14.7 ✓ V Cassiop
ξ 3 v
v 3 η
H



14.8 1222 ✓ R Persei
sec k 3 v
v 2 l sec
v = 9.5
H

14.9 2266 ✓ V Monocerotis
v 1 c
b 5 v
v = 7.0
L

15.0 ✓ R Canis Minoris
c 5-6 v
v = a
v = 9.5
L

Monday ~~S~~ Jan. 8 189~~3~~4

15.1 √ S Canis Min. L
l 4 v
v 2 f
v = 7.9

15.2 √ T Cephei L
l 2 v 40.7
v 1 m 41.9 41.3 = 8.9 magn.

15.3 √ S Cephei H
m 3 v 44.1 = 12.1 magn.

15.4 √ R Cassiop.

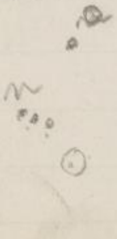
s 4 v 74.8 H
v = t 74.3
v 5 u 72.8
11.9 73.9 = 11.2

difficult to obs. on a/c of closeness of (R/w

15.5 √ S Cassiop. H
invisible < 12th mag.

√ #2
v invisible α β γ visible
v < 13.

15.6



m 3 m 2 0

Monday Jan. 8 189~~3~~4

15.6 ✓ S Persei
d′ 2 v
v = 1 d 12.9 = 9.0 magn. L

15.7 ✓ T Persei
c 4 v 11.9 L
v = d′ +
v 3 d 10.4
223 11.1 = 8.8 magn.

15.8 ✓ R Aurigae
v = g 30.6 L
v 3 h 31.3
61.9
30.4 = 9.2

15.9 ✓ R Cygni L
invisible ∫ 13.

15.9 ✓ R Ursae Maj. L
p 3 v 46.9 = 10.7

Meteor
Motion ↑ N 10° E slow Red = 5.
15;57 tail a little separated from head L
Sid. T. 11 27 H.A. 1h 14m E
α = 12h 32m +60°

: !

Monday Jan. 8 1894

16.1 T Ursae Maj
c 3 v 18.4
v 4 f 15.6
34.0
17.0 = 8.3 magn. Le

16.2 S Ursae Maj
c $\overset{5}{4}$ v 17.9
v 4 f 15.1
33.0
16.5 = 8.4 Le

16.3 R Camelop
v = 1 b 4.7 = 12.4 = 8.2 magn Le

16.4 R Draconis
v = d 12.7
v 6 e 12.4
51
12.5 = 7.9 Le

16.5 2625 ✓ V Geminorum
L 2 v
v = 11. Le

16.6 4845 ✓ S Virginis
Invisible < 12.
t see invisible. Le

16.7 3994 ✓ S Scorpii
K 3 v
v 2 m
v = 11.5 Le

16.8 ✓ 4300 X Virginis
h 4 v
v = k Le

Friday Jan. 12 189~~3~~4

O Ceti
too near the moon for obs.

1574 √ W Tauri
v 2 l
9.6 v 8-9 o Vi L
v 7 m
v 7 n

1577 √ R Tauri
9.7 v invisible < 13. H
n visible

1582 √ S Tauri
9.8 l' 3 v H
v 3 l
v = 10.2

R Tauri
a 6 b H
9.9 b 1 = c
c 1 d'
d' 4 d

√ HP 441
10 10 d 4 v L
v 4 e

too cold to monkey with the colored glasses

Friday Jan 12 1894

10.1. ✓ S Persei
d' 2 v
v 1 d 4

10.2 ✓ T Persei
v 1 d.
c 6 v 4

✓ # 2
invisible
α + β + γ visible 4

Wednesday Jan. 17 1894

✓ S Persei
d' = v
v 1 d

m L

✓ T Cassiop
g 5 v
v = h

M L

U Persei
e 3 v
v = f
v = 8.7

Friday Jan. 19 1894

10.2 T Cephei
l 3 v
v 4 m

Om Le

S Cephei
10.3 v invisible
m visible.

Le

698 ✓ U Persei
e 3 v
10.4 v = f
v = 8.4

✓ 715 ✓ S Arietis
10.5 v invisible < 10.5
a visible

782 ✓ R Arietis
10.6 invisible < 10.5
g visible

976 ✓ T Arietis
c = v
10.7 v = d
v = 9.0.

10.8 1113 ✓ U Arietis
k 5 v
v = m
v = 9.8

Friday Jan. 19 1894

1222 ✓ R Persei

v = 2

δ 1-2 v

v = 10.5

L m

12.5 ✓ X Tauri (?)

m 2 v

v 2 n

~~v7~~ v = 7.6

See if M is in D M

yes it is. (have looked it up.)

1537 ✓ T Tauri

H

12.6 invisible < 10.5

a visible

1574 ✓ W Tauri

12.7 h 6 v

v 8 l

no good comp. star at hand.

1623 ✓ T Camelop.

d 2 v

14.0 v 1-2 e

v 2 f

1717 ✓ V Tauri

14.2 c 1 v

v 5 f

v = 9.4

Friday Jan 19 1893 4

2539 ✓ R Can Min
14.8
c $\overset{=}{\cancel{2}}$ v
v 2 b
v = 9.1
H M

✓ 2684 S Can Min
15.0
~~c 4 v~~
~~v = m~~
v = 8.5
d 4 v
v = e
H M

2691 ✓ ✓ T Can Min
15.1
invisible { 10.~~5~~
b visible

2735 ✓ U Canis Min
15.3
h = v
g = v
v = 9.8 ✓

2946 ✓ R Cancri
15.5
d 3 v
v 2 e
v = 8.3

3060 ✓ U Cancri
15.6
invisible { 10
d & b visible

Friday Jan. 19 1894

16.0 3169 ✓ S Cancri
d 1 v
a 5 v
v = 8.0
HJM

16.2 3170 ✓ S Hydrae
v invisible < 10.
HJM

16.4 3186 ✓ T Cancri
k f 6 v
v 1 h
v = 8.4

16.5 3493 ✓ R Leonis
T 3 v
v 2 u
v = 9.7

16.6 3712 ✓ U Leonis
invisible < 10.3
HJM

16.8 3890 ✓ W Leonis
g 3 v
v 2 h
v = 9.4

16.9 3934 ✓ R Crateris
v 2 e
v = 8.7

Friday Jan. 19 1894

17.1 3994 ✓ S Leonis H M
g 2-3 ✓
v = 6

17.2 4160 ✓ T Leonis
invisible < 10

17.4 4377 ✓ T Virginis
v. invisible < 10.
p visible

17.6 4407 ✓ R Corvi
v = m (sec)
v = 10.6

17.8 4492 ✓ Y Virginis
K' 5 ✓
v 3 m
v = ~~10~~ 9.7

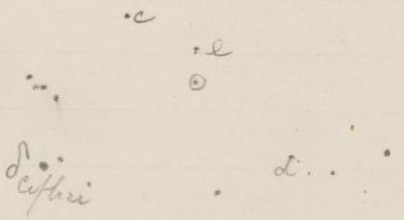
17.9 7120 ✓ X Cygni
g 5 ✓
v = h

L M

Monday Jan. 22 1894

851

✓ Wella Variable



7.5 c 2 v H M
v = d

7783 ✓ R V Cygni

7.8 γ 3 v H M
v 1 δ
β 1 v

8.2 ✓ Lacertae BD +39. 4851
β 2 v
v 2 g H M

8.3 114 ✓ S Ceti

c 4 v
v. 3 e (−10° 25′ 1855)
d 2-3 v
v = 8.1

161 ✓ T Piscium

8.5 a 3 v H M
v = 10.5

v seen w. diff. in bright M

Monday Jan 22 1894

8.6 243 ✓ U Cassiop

ε 5 v
v = [illegible]

HM

8.8 ✓ 434 S Piscium
v invisible < 10.7
e visible

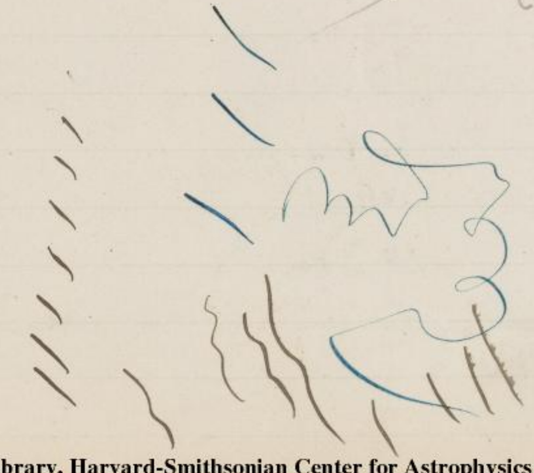
513 ✓ R Piscium
v invisible < 11.
9.0 (sec) ~~[illegible]~~ v visible = 10.5

678 U Persei
d 4 v
9.[illegible] e 1-2 v
v = p

2 43.
38.5
1 81 5
3 21.5
4

16 42.5
~~44. 42~~
1 38.5

15 4.0



Thursday Jan 25 1894

8.2 Wells Variable
c4v
v2e
" . See P26 for comp. stars. H

9.4 ✓ S Cephei
m1v
v3n L

9.5 ✓ T Cephei
m4v
v=12 mag L

9.6 ✓ R Cassiop
t=v
v5u H
v=12.5

9.7 ✓ T Cassiop
g4v
v4h H

9.8 ✓ S Persei
c4v
v1d' H
v3d

Thursday Jan 25 1894

✓ # 2

10.0 Invisible < 13 H

α β γ visible

✓ R Aurigae

g 3 v

v = h H

K 3 l

l 4 m H

2815 ✓ U Geminorum

14.8 Probably invisible < 12 mag.

not certain

/ of identification among faint stars. C H M

✓ 1923 S Aurigae

15.0 Invisible < 12

* between f & g invisible M H

15.2 2100 ✓ U Orionis

Invisible < 10 Z M H

2362 ✓ R Monocerotis

15.4 Invisible < 10.5 Z M H

Neb. visible

2742 ✓ S Gemini

15.5 v = g

v = 10

~~Th~~ Thursday Jan 25 1894

15.6 2780 ✓ T Gemini
t 4 v
v 6 q
v = 10.3

Mr H

15.7 3567 ✓ V Leonis
invisible < 10.

4731 ✓ S Canum Venatici
15.8 v 1 m
v = 9.0

4948 ✓ R Canum Venatici
16.0 t 2 v
v 2 u
v = 9.9

✓ T Bootis
16.2 5097 v t-2 d
v = 10.

Cat. says only one appearance known
have it looked up on Phot.

✓ R Bootis
16.4 5237 q = v
v 4 R
v = 9.7

Thursday Jan. 25 1894

M H

5338 ✓ U Bootis
16.5
b 1 v
v 3 ~~4~~ n
v = 9.6

5501 ✓ S Serpentis
16.6
v Invisible < 10.5
v < s
S visible

5504 ✓ S Coronae
16.7
(see) x 3 v
v = 11.

✓ U Coronae
d 5 v
16.8
v = 8.0

5667 ✓ R Coronae
17.0
q 2 v
v = R

5675 ✓ V Coronae B or
17.2
Invisible < 10.5
q visible

5677 ✓ R Serpentis
17.4
K 5 v
v 2 n
v = 10.

Thursday Jan 25 1894

17.8 5688 ✓ R Librae H M
Invisible < 10

✓
17.8 Wells Variable H M
e 3 v

Saturday Jan 27 189~~3~~4

T Boötis
not visible < 12^{mag} M H

15.7 On Jan 25 I ~~saw~~ observed the wrong star as then suspected.

/ β Lyrae

16d γ 4 β
β 1 ξ E

Tuesday Jan 29 1893 4

Eclipse Jupiter No I

Reappearance No I 5h 26m 26s Chron. 236
Seeing fair at time of Reappearance

Chron. Comparisons.

	#236	#1327
	h m s	
Before.	5 17 4.5	5 19 30
	5 18 4.5	5 20 30
After.	5 34 19.5	5 . 36 45
	5 35 19.6	5 37 45
	5 36 19.5	5 38 45

Observed Time = 5h 26m 26s (chron. #236)
#236 slow = + 2 25.5 referred to #1327
#1327 " = 36.8
True Time Reappearance = 5 29 28.3 Camb. Sid. Time.

Tuesday Jan 29 189~~3~~4

9.6 806 ✓ O Ceti
(wmR) m 1 v
c v 2 (m sec) $1^h 5^m 22^s$ (1855)

✓ R Ceti
9.8 h 7-8 l
l 5 k H

l 2 v

10.0 976 ✓ T. Arietis L
a 4 v
v = 6
v = 9.0
(sec) .x invisible.

1113 ✓ U Arietis
10.5 v = α
v = 12. H

✓ Wells Variable
10.7 e 4 v H

✓ R Persei
p 4 v H
11.0 v 1 q
v = 11.9

Thursday Jan 29 1894

√ +62.596

11.2 d 6 v
v 2 e . 4

11.3 green stars
e = v L

11.4 1367 √ X Tauri
m 10 4
v 2 n

1537 √ T Tauri
11.5 invisible < 12.0 A
a visible

√ W Tauri
11.7 h 5 v
v 6 l

h 5 α_e
α_e 6 l
l 4 n
m 2 0
n 2 0
√ 1582 S Tauri
11.8 l' 3 v
v = l
v 4 f (sec) ,,,,,

Tuesday Jan 29 1894

1577 ✓ R Tauri

11.9 invisible < 12, H

or visible

✓ R Camelop.

12.0 b = v

✓ T Ursae Majoris

g 4 v

v 1 h L

✓ S Ursae Majoris

f 2 v

v 3 g L

✓ R Draconis

12.5 e 3 v

v 4 d L

✓ Wells Variable

17.4 e 4-5 v Z H

Faintness due to horizon made the var. diff. to see.

✓ β Lyrae

17.5 ζ 1 θ E

β 1 θ

β 2 θ

ζ = β

11111

Thursday ~~Jan 2~~ Feb. 1 1894

10.1 ✓ Miss Wells Variable
l 3-4 v
H

V Persei
l = v
10.4 v 3 f
v = 9.5

✓ T Camelop
H
d 6 v
10.6 l′ 1 v
v 3 e

1717 ✓ V Tauri
11.0 c 3 v
L
v 3 b

Meteor

Mag 9 Red = 4 motion W
11:38 Sid Time 8:40 HAW $3^h 42^m$
R α 4 54 δ + 8

1761 ✓ R Orionis
L
11.6 invisible { 12

✓ R Leporis
11.8 d 3-4 v
L
v 2 b
v = 6.3

Thursday Feb. 1 1894

120 1923 √ S Aurigae
invisible < 13 H

√ Wells' Var.

122 17.3 e 5-6 V H

Friday Feb. 2 1893

9.8 ✓ T Cassiop.
f 6 v
v = g
v 3 h
L

✓ S Persei
d' 5 d

d' = v
v 3 d
l

10.2 ✓ New Var. #1
Invisible < 12
< visible
H

3712 ✓ U Leonis
10.4 Invisible < 12
H

10.5 3890 ✓ W Leonis
h = v
v = 9.4
H

12 28 56
1 32
10

Sunday Feb. 11 189~~3~~4

Andover

Abbot Academy Observatory

{Hereafter}

W.W ✓ S. Persei
c 5 v
d' 1 v
v = d ✓ 4

✓ T Persei
d' 1 v
v 2 d 4

Adjustment of telescope

(Tele. W)

	circles	True		
α Leonis	+7° 4'	+12° 29'	circles S	5° 25'
" " α Ursae Maj	+56° 40'	+62 19	" S	5 39

R A

S/W -1^m 56
E (3 5.2)
corr. ST -1^m 49

Tele W
α Leonis S.T. $12^h\ 12^m$ HA(E) $0^h\ 21^m$
S ∴ obs. α = $12^h\ 33^m$ True α = $10^h\ 2^m$ ~~$2^m\ 31^m$~~

Tele E
ST $12^h\ 17.5^m$ HA $0^h\ 12.5^m$ E −2 3
∴ obs α = ~~$13^h\ 30^m$~~ True α = 10 2 ~~2.5~~ ~~2 28~~ ~~2 12.5~~

1st approximation on S.T.

β β Leonis $\alpha = 10\ 27$

Tele. W S.T. = $10^h\ 38^m$ HA $1^h\ 39.5^m$ E

β Gemini $\alpha = 7^h\ 38^m$

Tele. E S.T. $10^h\ 46^m$ H.A. $2^h\ 31^m$ W

α Virginis S.T. 12 57 $\alpha = 13^h\ 19^m$

Tele. W HA.(E) $0^h\ 57.5^m$.

α Leonis ST 12 59 $\alpha = 10^h\ 2^m$

Tele. E HA (W) 2^h 21.5 ~~E~~

~~10. 27~~
~~1 39.5~~
~~12 6.5~~ = S.T.

10 27
1 39.5
8 58.5 = S.T.

7 . 38
2 31
10 9

13 19
~~57.5~~
12 21.5
12 . 57
35.5

12 23.5
59.0
~~12~~ 36.5

(W.) HA

obs 12 57.5 True −0 51

γ Virginis S.T. $12^h\ 53^m.5$ HA $0^h\ 21.5^m$ W δ −1° 30′

α = $12^h\ 36^m$ clock = 4. slow

obs 13 5 true 19 44′

α Bootis S.T. $13^h\ 3^m$ H.A. $1^h\ 6^m$ E N 19° 50

α = $14^h\ 11^m$ clock = 2^m slow

16.4 5237 √ R Bootis

S 2 v

v 1 u = 10.5

16.6 5583 √ X Librae

p = v

v 2 q v = 10.3

16.8 5617 √ U Librae

v 3 ± R

too close to R for good obs. L

v = 10

17.0 5644 Z Librae

R 2 v

v 4-5 S

v = 10. L

Sunday Feb. 11 1894

12.2 ✓ β Lyrae
o 3 β
✓ β 3 ζ

✓ R Lyrae

o 5 v	o Herculis
v = ζ	ζ Lyrae
v 1 θ	θ "
θ	η "

12.3 θ 3 η

✓ δ Cephei
12.4 ε 1-2 δ
δ 6 ζ

Tuesday Feb. 13 1894

Adjustment of telescope

old south church

~~Tele. E 327.0 (+33°.0~~

Tele. ~~W~~E 228.° 12ʹ −~~28~~ 12

" W 153 0 −27°

1st adj.

27 48 27 42

3 32 45 27 15

13

32

332 40

−27 43

Hour Circle

3h 19m ~~E~~ W

3 20 E

332 43 19.5

27 45 18.5

~~H. A. Tele~~ W −27 45 3 18.5

h. a. " E −27 20 3 19.8

08.0

m. −27 32 3 19.1

Tele

h a E −27 30 3 19.0

W −27 32 3 18.0

	h	m	
Na · E	0	32.4	
	~~0~~	~~32.4~~	0
	0	33.0	

32.6

32.0

Friday Jan. 16 1894

5th mid. Time $11^h\ 0^m$ Sid. Time $9^h\ 0.6^m$

α Leonis α = $10^h\ 2^m$
(Tele W) Sid. T. 10 8.5 h a 3^m W

(Tele E) Sid T 10 10.5 h a 6^m W

α Virginis α = 13 19 −10 35 50
Sid. T. $10^h\ 20^m$ h a $3^h\ 1^m$ E −11° 25'

δ Bootis α = $15^h\ 11^m$ δ +33° 49' 58
Sid Time $10^h\ 42^m$ h a $4^h\ 31^m$ E δ = +32° 45'

ε Draconis α = $19^h\ 48^m$ δ = +69 59 ~~+69 5~~ 32
Sid Time $10^h\ 56^m$ h a $8^h\ 44^m$ E δ = +69° 27'

Polaris α = $1^h\ 29^m$ δ = +88 44
h a. $10^h\ 12^m$ (W) δ = +89° 7' −23

δ Ursae Min α = $18^h\ 6^m$ δ = 86°. 36'
Sid Time $11^h\ 17^m$ h a $6^h\ 28^m$ E δ = +85° 37' 59

δ Leonis α = $11^h\ 8^m$ δ +21° 7'
Sid. T. 11 31 h a $0^h\ 19.5^m$ W δ = +21° 0' 7

α Leonis α = 10 3 +12 30
Sid T. $11^h 35^m$ h a $1^h 30^m$ W $\delta = +12^\circ 43'$

α Hydrae α $9^h 22^m$ $-8^\circ 11'$
Sid T. $11^h 46^m$ h a 2 23 W $-7^\circ 44'$

~~β Cancri 8 11 +9 31~~
β Gemi 7 39 +28 17
Sid T 11 58 h a 4 16 W +29 ~~0~~ 12

β Aurigae $5^h 52^m$ $+44^\circ 56'$
Sid T. $12^h 7^m$ h a $6^h 13^m$ (W) $+46^\circ 2'$

γ Camelop $3^h 39^m$ $+71^\circ 0'$
Sid T 12 15 h a $\overset{8}{\cancel{2}}0$ 40 (W) +72 0

Move telescope ~~P~~ N 1° E. in Azimuth

diam of tang of pier is 20 in. $\therefore 1^\circ = \frac{20 \times \pi}{360} = 0.17^{in}$

3.14_{20}
$360 \overline{)\,6.28\,47}$
1.05
0.174

Test

α Leonis δ = +12 30 N 5'
Sid T. $13^h 10^m$ h a 3 4 W +12 35

α Lyrae 18 33 +38 41 S 14'
S.T. 13 16.5 h a $5^h 15^m$ E +38 27

Saturday Feb. 17 1894

Adjustment of Telescope.

21 47.8
12 15.
3

34 65.8
10^h 5.8^m

Stand T. = 12^h 0^m And Sid. T. = 10^{h} 5.8^m

α ~~Vir~~ Leonis +12 30 $0^{h m}$ S 1′
δ 12 29 h a W 14^m

η Ursae Maj. +49 52
Unknown a = ~~η Ursae Maj.?~~ ~~49 52~~ 3.4 E S 22′
ST 10 24 h a 3 24 E +49 30

b = α Coronae (?) +27 5 5.1 E N20′
ST 10 26 h a $5^m 6^m$ E. $+26^\circ$ $45'$

c

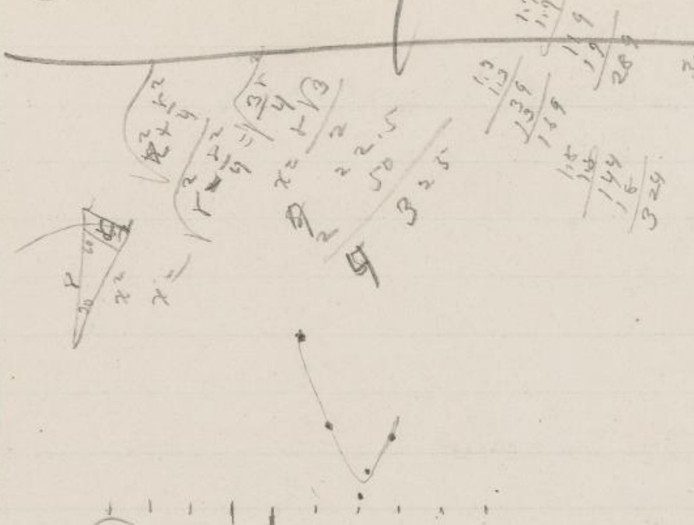
10 31 2 50.5 E +9° 9′

13 21

η Ursae Maj. δ = 49° 52′
d either α or β Ursae Maj. Same as a 3.1 E S 22
10 39 3 8 E +49° 30′

Tele should be moved in Az. N 20′ E
The obs. above for this result are very imperfect.

Thursday Feb. 22 1894



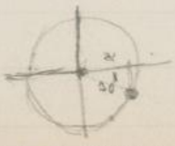
h m
8 15
4 45
13

22 7.5
2
22 9.5
8 15
30 24.5

at 8h sid T = 6h 24.5m
0 5.2
0 16.5

				α o−c	δ o−c
α Tauri	4 30	+16 17		+2.5	N 5′
7 sid Time 22.5	ha 2h 50m W	+16 21			
δ Orionis	5 26.5	−0 23		+2.5	N 3′
7 33	ha 2h 4m W	−0 20	α − 5h 29m		
ζ Gemin	6 57.9	+20 43		+2.8	S 12′
7 40	0 39.5 W	+20 31			
γ Gemin	6h 31.5m	+16° 29′		+2.5	S 6
7 47.5	1 13.5 W	+16 23			
α Orion	5 49 2 2.5 W 5 49	+7 23 +7 22 +7 23		+2.5	S 1′
7 54					
β Leonis(?)	11 43.5	15. 10		+1.5m	S 37
8 12	3h 30m E	+14 33			
γ Ursae Maj	11h 48m	+54 17		+3.5	S ~~+~~26
8 21	3 30.5 E	+53 51			

move in Az N ½° E

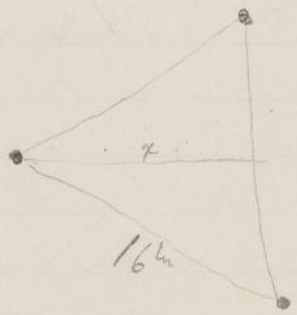


$$x = \frac{16\sqrt{3}}{4} = 13.6$$

$1^{\circ} = 0.24^{in}$

56) 13.6 (0.24
112
240

16
1.7
112
16
27.2
13.6



$0.72^{in} = 1^{turn}$

$\frac{23}{32}$

or $10^{turns} = .1^{in}$ on screw.

$2.5^{turns} = 1^{\circ}$

$0.6 = \frac{1}{4}^{\circ}$

[illegible]

$10^{h}\ 30^{m}$ ha $4^{h}\ 7.5^{m}$ W +28 30

$6^{h}\ 22.5^{m}$

γ Vir. α = 12 36

11 50 0 47.5 E

∴ α = 12 37.5

1893phae.prpj..453R

Feb. 22 1894 Thursday

13.8 2684 √ S Canis Min. — M L
c 3 v
v 2 d
v = 7.5

12 5.5 4 37 W + 8h/18m

14.0 2691 √ T Canis Min — M L
Invisible < 10

14.2 2780 √ T Gemini — " "
Invisible < 10.5

14.4 2742 √ S Gemini — " "
was seen by glimpses = 11.5 mag.

14.6 2946 √ R Cancri
l 2 v,
v 4 k'

14.8 ~~2976~~ √ V Cancri
Invisible < 10.
l visible

15.0 3060 √ U. Cancri
v 4 f
v = 9.

15.3 3109 √ S Cancri
c 1 v
v = 8.1

Thursday Feb. 22 1894

β Lyrae

E

15.4
γ 6 β
β 1 ζ
β 4 o

R Lyrae

(snow).

15.5
χ 3 v
v 2 ζ

Thursday March 1 1894

+

Sid Time

α Leonis
6 12   3 24 E
Sid T = 13 26.5

6 57.5 ST
1 13.0 haw
~~5 44.5~~
5 51
~~4 38~~
6 64
7 4

7 15
1 26

1 26
5 49
6 75
7 15

8.6 (1574) √ W Tauri
a 5 v
v 6 b
v = 9. Lu

8.7 1579 √ R Tauri
minimum < 10

8.8 1582 √ S Tauri
minimum < 10 Le

8.9 1623 √ T Camelop.
g 2 v
v 3 e²
v = 8.2 L

Thursday March 2 1893

9.1 | 1717 √ V Tauri
d = v
v 2 e
v = 9.1

L

2 34
7 27
10 1

9 5-8

Friday March 2 1894

7.6 ~~Cl~~ ✓ 806 ~~R~~ o Ceti L
l 1 v
v 3 m c
V = 3.5

7.7 ✓ 906 R Trianguli
p 5 v
v = 11.5

---

clouds

---

clouds again

26~~7~~5 ✓ U Monocerotis L
g 1 v
v 5 6 h
11.0 v = 6.5

11.2 2684 ✓ S Canis Min
d 5 v
v 2 e
v = ~~5~~ 8.

11.5 2740 ✓ U Orionis
v = e
v = 7.

Friday March 2 1894

11.9 3881 ✓ V Hydrae Ly
e 5 v
xf 2 v
v = 6.8
v = 10 R

12.0 3890 ✓ W Leonis L
g 3 v
v 3 h
v = 9.

12.2 3924 ✓ R Crateris
l 5 v
v 1 m
v = 8.

12.4 3994 ✓ S Leonis
e 2 v
v 3 f
v = 9.5

✓ Look uf T Leonis

12.6 4300 ✓ X Virginis U
m 3 v
v 2 o
v = 11.

Friday March 2 1894.

4315 ✓ R Comae
v invisible < 12
12.7 q visible Le

4377 ✓ T Virginis
12.8 invisible < 12
w visible L

✓ R Corvi
13.0 4407 m 3 v
v 2 o
v = To. 9.4 Le

13.2 4492 ✓ Y Virginis
v = q
v = 11.5

13.4 4521 ✓ R Virginis
q 5 v
v = h
v 4 k
v = 8.

4596 ✓ U Virginis
13.6 l 2 v Le
v 3 k
v = 8.5

✓ S Canum Venaticorum
13.8 4231 v = m
v = 9.

Friday March 2 1894

14.6 ✓ β Lyrae

ξ 4 β

β = 0

14.0 ✓ R Lyrae

ξ 3 R

R = 0

5770 ✓ R Herculis

14.1 R 3 u 9.2

v 3 l 8.8

v = 9.

4805 ✓ W Virginis

14.3 l 3 v

v 3 m

v = 8.7

4816 ✓ V Virginis

14.5 invisible < 12

θ visible

14.7 4826 ✓ R Hydrae

v 6 d

v = 6.7

4849 ✓ S Virginis

14.9 ϕ ~~γ~~ 5 v.

v = ~~[illegible]~~ γ

v = 10.4

Friday March 2 1894

Saturday March 3 1894

10.1 1986 ✓ T Orionis

m 5 v
v = n
v = 9.4

6

2 1944 ✓ S Orionis

w 11 v
v 2 y
v = 12.

4

4 2266 ✓ V Monocerotis

g = v
g v 3 h
v = 8.2

4

5 2857 ✓ U Puppis

k 5 v
v 2 l
v = 8.5

5 1574 ✓ W ~~Ta~~ Tauri

a 3 v
v 4 b
v = 9.7

6 1761 ✓ R Orionis

t invisible
v invisible < 12.

9. 2362 ✓ R Monocerotis

invisible < 12

Sn its companions visible

Saturday March 3 1894

11.1 2528 ✓ R Gemin
invisible < 12
α visible,

11.3 2625 ✓ V Gemin
m 4 v
v 2 n
v = 11.

Gegenschein
11:45 1/3 from σ to χ Leonis
= to 1/2 from ζ Gemin. to δ Gemin.

14.0 2735 ✓ V Canis Min.
v 2 R
V = 12

L

2780 ✓ T Geminorum
14.2 invisible < 12
t visible.

2742 ✓ S Gemin.
w 2 v
14.4 v 4 x
v = 11.6

3170 ✓ S Hydrae
14.6 α 4 v
v 2 β
v = 9.3

Saturday March 3 1894

14.7 3186 √ T Cancri L

v = 7.6

η 2 v

v = ζ

14.8 3567 √ V Leonis

h 5 v

v 2 k

15.0 3712 √ U Leonis

invisible < 12

w visible

4940 √ W Hydrae

15.2 ε 2 v

v 5 ζ

v = 7.5

v = 10R

5037 √ RR Virginis

15.4 v = 10.

~~h~~ g 2 v

v 4 h

5070 √ Z Virginis

15.6 W visible

v invisible < 12

5249 √ V Librae

15.8 w 4 v

v = 7

v = 10

Saturday March 3 1894

16.1 5430 ✓ T Sagittae
h 2 v
v = 10.

16.3 5494 ✓ S Sagittae
φ ~~a~~ 2 v
v 2 ~~a~~ β
v = 10.5

5511 ✓ — Sagittae
16.5 m 3 v
v 3 n

✓ α Herculis
16.6 b 5 v
v 1 = d E
v 2 c

✓ R Lyrae
16.~~8~~7 O 1 v E
θ 3 v
v 2 ζ

16.~~6~~8 ✓ β Lyrae E
ζ = β
β 4 O

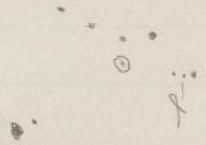
✓ η Aquilae E
16.8 ~~α~~ β = η

Saturday March 3 1894

16.9 √ δ Cephei

μ 5 δ
δ = ε
δ 3 ζ

√ Wells Variable



17.10 ~~16.0~~ W v = γ
v = 10.5

Sunday March 4 1894

10.6 3184 T Hydrae
invisible <12
~~ab~~ w visible

2691 T Canis Min.
10.8 ~~a~~ w 3-4 v
v = 12 mm
v seen only by glimpses
perhaps not seen at all.

2946 R Cancri
11.0 e 4 v,
v 2 k'
v = 8.5

V Cancri
11.2 see if not invisible

3060 V Cancri
11.4 c 5-6 d
d 4 e
e 4 f

c 5 v
v = d
v 5 e

3109 S Cancri

Sunday March ~~3~~ 4 1893

12.2 3170 ✓ S Hydrae
α 3 v
v 4 β
v = 9.

✓ HP 441
12.4 d 5 v
v 2 e
v = 7.8

1981 ✓ S Cancri
12.6 h 5 v
v 2 k
v = 7.5

12.8 2258 ✓ V Aurigae
n 3 v
v 3 o
v = 10.

13.0 3477 ✓ R Leonis Min.
v 2 α
v = 11.6

Gegenschein
13.1 1/10 from α Leonis to β Virgo.
Round in shape.

1893phae.prpj..453R

Sunday March ~~3~~ 4 1893

14.6 5770 ✓ R Herculis
-R 1 v
v 3-4 l
V = 8.8

9.0
8.8
8.9

5583 ✓ X Sihae
o = v
14.8 v 4 q
V = 10.5

5617 ✓ U Sihae
h = v
15.0 V = 11.7

5644 ✓ Z Sihae
R 2 v
15.2 v 3 s
V = 10.3 u

5593 ✓ W Sihae
15.4 o 4 v
v 3 p l
V = 10.8

15.6 56~~78~~ 88 ✓ R Sihae
~~R~~ h 1 v
v 5 k
V = 10.5

15.8 5704 ✓ RR Sihae
v = x
V = 12..

Sunday March 3^d 1894

Meteor

16 23. S 45 E slow 6 magn. white
Sid T 15 25 h a $0^h 37^m$ E
α 16/3 δ −21°

16.5 5776 ✓ X Scorpii
h 3 v
v 3 k
v = 11.

16.6 5761 ✓ Z Scorpii
n = v
v = 11.5

16.8 5795 ✓ W Scorpii
invisible < 12
R visible

16.9 ✓ β. Lyrae
γ 4 β
β 2 ζ

1.6.9 ✓ R Lyrae
o 1 v
v 4 ζ

17.0 ✓ η Aquilae
β 5 η
η 1 υ

Sunday March 3^{4} 1894

171
170

√ δ Cephei
ζ ε 4 δ
δ 2 ε

Tuesday March 6 1894

2539 ✓ R Canis Min.

v = g.

v 2 k.

L

✓

Wednesday March 7 1894

12.3 2976 ✓ V Cancri
V = 11.5
α 4 V

L

2509 ✓ ζ Geminorum
12.5 λ 2 v
v 2 ~~m~~ n

n is V Geminorum

✓ 3107 S Cancri
e 4 v
12.7 x d 1 v
V = 7.5

5156 ✓ X Bootis
12.9 h 2 v
v 3 k
V = 9.0

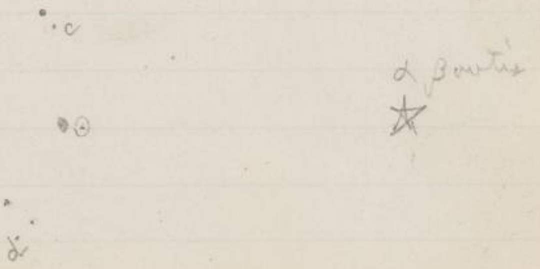
5237 ✓ R Bootis
13.1 u 3 V
V = 11.7

L

✓ 5274 W Bootis

E

c 2 v
13.3 v 1 d
v = 5.3



Wednesday March ~~6~~ 7 1894

5338 ✓ U Boötis

13.5 m 2 v

v 2 10,

✓ β Lyrae

13.6 γ 4 v

β 2 ζ

13.7 ✓ R Lyrae

O 2 v

v 1 = ζ

13.8 ✓ δ Cephei

γ 4-5 v

v 2 ζ

Saturday March 10. 1894

9.8 320 √ U Cephei © Li
v 2 g
v = 7.5

5583
5511
U Geminorum
HP. 4[illegible]

Monday March 12 1894

16. 5770 R Herculis L

g 4 v

v = h

v 4 k

16.3 5889 U Herculis

p 4 v

v 4 ~~x~~ R

v = 9.5

Y Herculis

field glass

16.8 6044 S Herculis 6

v = 11.6

R Lyrae

o 3 v

v = ζ

v 1 δ

17.0 β Lyrae

β = 1 γ

γ ! β

17.4 δ Cephei

γ 3-4 δ

δ 5 ζ

Wednesday March 14 1893

15, ✓ S Cephei
l 3-4 v
v 3-4 m
v = 10.

✓ T Cephei
m 3 v
v 4 n
v = 9.

✓

✓ S Cygni
invisible <12.

✓ R Draconis
h 5 v
v 2 k
v = 9.

✓ R Camelop.
d 1 v
v 4 e
v = 8.

✓ S Bootis
g 1 v
v 3 h
v = 9.3

Wednesday March 14 1894

S Ursae Maj

m 5 v

~~v4~~ v = n

v 3 0

~~15~~

Meteor

16:20 motion N slow Red = 8 8.5 magn.

S.T. 15 58 α = 12 32 δ = +60

looked like a double or multiple meteor.

T Ursae Maj

invisible < 11.5

η Aquilae

16.7 β 3 v

ε 1 v

β Lyrae

16.8 γ 4 β

β 2 ξ

R Lyrae

16.9 o 3 v

v 1 ξ

17.0 d Ophi

v = 8

17.1 5274 W Bootis

e 1 v

v 2 d

Friday March 16 1894

M

11.5

814 ✓ S Persei
d′ 3 ✓
v 1 d
v = 8.5

793 ✓ T Persei
c 5-6 ✓
v = d′
v = 8.2

1855 ✓ R Aurigae
g ~~f~~ 2 ✓
v 3 h
v = 8.

2478 ✓ R Lyncis
invisible < 11.

3825 ✓ R Ursae Maj
v 3 p
v = 10.
identification doubtful

1923 ✓ S Aurigae
v invisible < 11.5
t visible

12.0

2013 ✓ U ~~V~~ Aurigae
v invisible < 11.
m visible

12.2

Friday March 16 1894

12.5 ~~11.5~~ 4948 ✓ R Canum Ven
v = 4
v = 11.5
obs difficult

5194 ✓ V Bootis
12.7 m 2 v
v 2 m
v = 7.7

5504 ✓ S Coronae
12.8 g 4 v
v 2 h
v = 7.4

13.0 5675 ✓ V Coronae
m = v
v 3 m
v = 9.5

13.2 5758 ✓ X Herculis
k 2 v
v 2 h
v = 6.5

5950 ✓ W Herculis
13.4 k 1 v
h 5 v
v = l
v = 9.

Friday March 16 1894

13.6 6005 ✓ S Draconis m
m 2 v
v 3 n
v = 8.1

13.8 6512 ✓ T Herculis
invisible < 11.5
t visible

14.0 7045 ✓ R Cygni
invisible < 11.5
θ visible

14.2 7085 ✓ RT Cygni
v = 12.1
seen no diff.

14.3 7120 ✓ X Cygni
y 2 v
v 3 d
v = 10.5

✓ R + S Scorpii
5830 5831

14.4 invisible < 11.
think I caught glimpses of both.

14.5 ✓ T Scorpii
5826 invisible < 11.

m

Friday March 16 1894

14.6 5856 ✓ W Ophiuchi Am

g 3 v
v 3 h
v = 8.5

14.8 5887 ✓ V Ophiuchi

g 4 v
v 2 h
v = 7.1

5903 ✓ Y ~~Ophiuchi~~ Scorpii Am Am

14.9
h 4-5 v
v = 10
obj diff. & uncertain

15.0 5928 ✓ T Ophiuchi

g 2 v
v 4 h
v = 8.5

15.2 6132 ✓ R Ophiuchi

γ 4 v
v = δ
v = 9.0

15.4 6636 ✓ U Sagittarii

v 2 g
v 5 h
v = 7.0

Friday March 16 1894

15.7 ~~6636~~ ✓ ~~U~~ ~~V~~ Sagittarii
~~6638~~ 3 6633 V
α 5 v
v 2 β
v = 7.8

I doubt ~~whether this is a~~ variable. Removed from Catalogue ∵ not var.

15.8 6733 ✓ R Scuti
v 1 α
v = 6.5

15.9 ~~16.0~~ 6834 ✓ V Aquilae
α 5 v
v 3 β
v = 7.8

6903 ✓ T Sagittarii
s 2 v
v 1 t
v = 10.8

16.0

16.1 6921 ✓ S Sagittarii
Invisible < 10.8

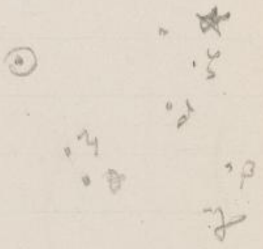
16.2 6758 ✓ β Lyrae
v = ε
v 3 o

16.3 7124 ✓ η Aquilae
η 2 β

Friday March 16 1894

16c3 6794 √ R Lyrae

I 2 ν
δ 1 ν
ν 2 θ



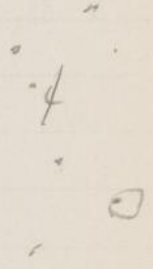
16c3 8073 √ δ Cephei

ε 4-5 δ
δ 2 ζ

March 19 1894 Monday

~~10.6~~

~~9.6~~ 9.6 ✓ S S[illegible].
λ 4 v
v 2 v ⎫
v 1 v ⎭ ?



10.6 678 ✓ U Persei
c 6 v
v = d
v 2 e
v = 8.5

M

11.0 ✓ +62.596
v 1-2 e
d 5 v

M

5550 C ✓ S Serpentis

M

11.4 I think I catch glimpses of var. but identification on account of moon light doubtful.

11.8 5720 ✓ R Herculis
f 3 v
v 1-2 g
v = 8.5

M

11.9 5952 ✓ Y Herculis
v 2 ~~m~~ h
v = 7.5

See obs on next page

Since there were two charts I accidentally observed the star twice. This obs is made to correspond to the second. For h and m are identical
94/3/20

Monday March 19 1893

12.0 6044 ✓ S Herculis M
possibly seen with uncertainty
v < ~~t~~ α
v < 11.3

12.2 5952 ✓ Y Herculis
v 3 h
v = 7.2

12.4 6624 ✓ T Serpentis M
not seen w. certainty
v < 11.

15.5 7192 ✓ Z Cygni
Invisible < 11.5

✓ θ visible

15.6 7259 ✓ R.S. Cygni
p 2-3 v
v = 0
v 4 n
$v = 10^{A}$
v = 8.

15.7 7299 ✓ V Cygni
α 1 v
v 1 β
β v = ~~[illegible]~~ 7.6

Monday March 19 1894

7428 ✓ V Cygni

15.8

m 4 v
v 2 m
v = 9.2

7437 ✓ X Cygni

m 2 v

15.9

v 2 m
v = 9.

7456 ✓ RR Cygni

m 4 v

16.0

v 2 m
v = 9.

7531 ✓ RW Cygni

16.1

v = m
v = 9.

7783 ✓ RU Cygni

d 3 v

16.2

v 1 e
v = 9.

7795 ✓ RV Cygni

16.3

v 4 m
v = 8
v = 8 R

8068 ✓ S Lacertae

16.4

e 3 v
v 2 d
v = 9.3

Monday March 19 1894

16.5 ✓ R Lyrae
I 2 v
δ 1 v
v 3 k

✓ β Lyrae
16.6 β 1-2 γ

✓
16.7 7149 S Sagittae
h ~~m~~ 3 v
v 1 e

Saturday March 24 1894

8.5 1986 ✓ T Orionis
m 7 v
v 2 n
v = 9.2

8.6 1944 ✓ S Orionis
x 6 v
v = y
v = 11.7

8.8 2266 ✓ V Monocerotis
h 6 v
v = k
v = 9.

5720 ✓ R Herculis
f = v (?)
9.2 near horizon obs. doubtful
v = 8.5

9.5 2625 ✓ V Geminorum
m 3 v
v 2 n
v = 11.

9.8 ~~2774~~ 2684 ✓ S Canis Min.
e 3 v
v 1 f
v = 8.3

Saturday March 24 1894

10.0 2735 ✓ U Canis Min.

* S.3 v
v 2 t
v = 11.7

10.2 2946 ✓ R Cancri

k' 3-4 v
v 2 m
v = 8.5

10.3 2976 ✓ V Cancri

γ 2 v
v 3 β
v = 10.5

10.5 ✓ H62.596

d 4 v
v = e
v = 8.2

10.7 1623 ✓ T Camelop

α 3 v
v 2 β
v = 9.5

Monday March 26 1894

3881 ✓ V Hydrae
12.7
~~f 3 v~~ e 3 v
~~v 2 g~~ v 2 f
v = 7.3

3934 ✓ R Crateris
12.8
v 1 m
v = 9.

4407 ✓ R Corvi
12.8
invisible < 11.5
ϕ ✗ invisible

3060 ✓ V Cancri
12.9
d 4 v
v 2-3 e
v = 9.5

3109 ✓ S Cancri
13.0
d 3 v
v = 8.8

3170 ✓ S Hydrae
13.2
g 4 v
obs doubtful
v = 9.5

Monday March 26 1894

13.3 3186 ✓ T Cancri
ε 5 v
v 3 y
v = 8.1

13.6 3567 ✓ V Sextantis ✗
f 5 g
g 3 h
~~[illegible]~~

e 2 v
v 5 f
v = 8.7

13.7 3890 ✓ W Sextantis
g 5 v
v = h
v = 9.8

13.8 3994 ✓ S Sextantis
h 2 v
v 1 g
v = 9 10.6

14.1 4160 ✓ T Sextantis
invisible < 11

Moisture is collecting on the eyepiece so rapidly that I shall have to stop observing due probably to the unusual cold and moisture in atmosphere.

Monday March 26 1894

14.3 5912 ✓ ζ Herculis ε
c 2 v
v 4 d

✓ α Herculis
14.4 d 2 v ε
v 2 e'

✓ β Lyrae
14.5 γ 2 β ε
β 3 ζ

✓ R Lyrae
ξ 1 v
14.6 v = d ε
v 2-3 k

✓ δ Cephei
14.6 ξ 5 v ε
v = ι

7149 ✓ S Sagittae
h 4 v
14.7 v 1 e ε
v 2-3 b

Tuesday March 27 1894

Leporis
1771 R Leporis
have a new chart made.

7.8 2676 ✓ V Monocerotis
g 4 v
v 4 h
v = 6.2

8.0 ~~2279~~ 2375 ✓ S Monocerotis
~~2362~~
m 4 v
v 1-2 n

8.1 ✓ S Geminorum
d 2 v
v 2 l

8.2 2857 ✓ U Puppis
l = v
v 3 m
v = 9.

8.3 243 ✓ U Cassiop
l 3 v
~~v = 9.8~~
v = 10

8.4 320 ✓ U Cephei
v 2 f
v = 7.

Tuesday March 27 1894

8.7 ✓ +62 596
e 2 v
v = }

8.9 1981 ✓ S Camelop
g 2 v
v 1 h
v = 8.5

9.3 1537 ✓ T Tauri
invisible < 11.8

9.4 1574 ✓ W Tauri
b 1 v
v 4 e
v = 9.5

9.5 1577 ✓ R Tauri
v 1-2 g
v = 8.5

9.6 1717 ✓ V Tauri
v = g
v = 10.7

Friday March 30 1894

a very brilliant Aurora covered the entire heavens. The vanishing point was clearly marked at 9:32 it was 1/2 way between κ and μ Leonis. Shortly after the vanishing point grew large in area & therefore more difficult to locate. There were numerous patches of bright red.

9.1 2100 √ U Orionis
e 3 v
v 3 f'
v = 8

9.2 √ +62° 596
e 2 v
v 2 f

9.4 2258 √ V Aurigae
o 5 v
v = 11.

10.3 4492 √ Y Virginis
q 5-6 v
v barely visible in Aurora
v = 11.7

10.4 4826 √ R Hydrae
v 2 R
v = 7.5

Friday March 30 1894

10.7 4847 ✓ S Virginis

& v 2 d

v = 10.5

Sunday April 1 1894

9.3 4521 R Virginis

v about equal to e
passing clouds make precise obs impossible
v = 8.

Monday April 2 1894

7.8 782 ✓ R Arietis
l 2 v
v 2 f
v = 8.5

7.9 1113 ✓ V Arietis
invisible < 11.7
a visible!
a = 11.4

8.0 1367 ✓ X Tauri
m 2 v
v 4 n
v = 7.

2539 ✓ R Canis Min.
8.2 g 4 h
h 4 k
v 4 f
v = 7.

8.7 ✓ ζ Geminorum
δ 4 v
v 3 n
l 2 v

~~8.8~~ 8.7 ✓ S Monocerotis
m 1 v
v 5 m

Monday April 2 1894

8.7 ✓ T Monocerotis
π = v
v 4 ρ

8.9 906 ✓ R Trianguli
g 5 v
v 2 h
v = 7.5

9.0 1222 ✓ R Persei
invisible < 11.7
μ visible

✓ +62 596

9.1 e 5 v
v = ξ

9.5 3477 ✓ R Leonis Minoris
γ 6 v
v 2 β
v = 11.

9.7 ~~4137~~ 4731 ✓ S Canum Venaticorum
m 5 v
v 2 o
v = 8.8

Monday April 2 1894

9.9 4300 ✓ X Virginis

α = v
v = 11.

4596 ✓ U Virginis

e 4 v
v 2 f
v = 8.

X 10.4

10.5 5156 ✓ X Bootis

g 5 v
v 2 h
v = 9.

✓ R Bootis

10.6 5237

u 2 v
v = 11.7

10.8 5338 ✓ V Bootis

l 4 v
v = m
v = 9.

11.0 5501 ✓ S Serpentis

α 6-7 v
v = 11.9

Monday April 2 1894

11.1 5667 ✓ R Coronae
k 2 v
v 2 l
v = 8.

11.2 5677 ✓ R Serpentis
v invisible < 12
ϕ visible

5770 ✓ R Herculis
f 1 v
v 2 g
~~v = 7.7~~
v = 7.7

17.6
17.9
17.75 = 8.46

11.5 5859 ✓ ~~R~~ U Herculis
n 4 v
v 10
v = 8.

11.6 5037 ✓ RR Virginis
e g 3 v
v 3 h
v = 10.8

Monday April 2 1894

13:30 Gegenschein c

I see no faint branch in neighborhood of Gegenschein as if when in Leo.

13.7 5249 V Librae
d 4 v
v 2 e
v = 9.

13.8 5430 T Librae
g 4 v
v = h
v = 9.5

13.9 5494 S Librae
n 6 v
v 2 l
v = 10.

5511 (—) Librae (−22°)
14.1
g 2 h
h 3 k
k 6 l
l 4 m

v 1 g
v 3 h
v = 8.

Monday ~~Sat~~ April 2 1894

14.3 5583 ✓ X Librae

m 4 n
n 2-3 o
o 6 p

m 2 v
v 3 n
v = 10.5

14.5 5617 ✓ U Librae
m 6 v
v = n
v = 10.5

14.6 5644 ✓ Z Librae
s 2-3 v
v 3 t
v = 11.

14.7 5593 ✓ W Librae
p 5 v
v = 12

14.9 5688 ✓ R Librae
v 1 k
v = 10.5

Monday April 2 1894

15.0 5704 ✓ RR Librae
χ 2 v
v = 12.

15.2 5776 ✓ X Scorpii
e 5 f
f 4 g
g 4 h
v 1 e
v = 8.

15.3
~~5~~
5761 ✓ Z Scorpii
n 5 o
o 6 v
v = 12.

15.3 5795 ✓ W Scorpii
v invisible < 12

6636 ✓ U Sagittarii
15.5
α = v
v 4 β
v = 7.

6682 ✓ X Ophiuchi
15.7
m 2 v
v 3 n
v = 7.5

Monday, April 2 1894

15.9 6726 ✓ T Aquilae
h 2 v
v 4 k
v = g.

16.0 ✓ η Aquilae
β 4 η
η 3 ι

16.0 ✓ β Lyrae
γ 5 β
β 1 ζ
β 5 o

16.1 ✓ R Lyrae
δ 1 R
R = δ
R 2 K

16.2 ✓ g Herculis
e 1 g
v 1 e

16.2 ✓ S Sagittae
c = v
v 3 b

Monday April 2 1894

16.2 6733 √ R Scuti

g 2 v
v 3½ h

16.2 √ δ Cephei

ζ 1 x δ

~~Th~~ Tuesday April 3 1894

814 √ S Persei
d′ = v
v 2 d
v = 8.

8.3

[illegible] ST = 9:15
m = 11
n = 11.5 steadily
o = 11.8 unsteadily uncertain w. diffic.

1855 √ R Aurigae
e 4 v
v 5 f
v = 7.5

8.6 ST 9:30
p = 11.3 steady
q = 11.8 ~~uncertain~~ w. diff.
R = 12. glimpses

2478 √ R Cygnis
q 2 v
v 2 h
v = 9.

9.9 S.T. 9:50
p = 11.5 steady
q = 11.7 w. difficulty
R invisible
S = 12.0 glimpses

Tuesday April 3 1894

9.7 4511 ✓ T Ursae Maj

v 2 g

v = 11.1

ST 10:30

R = 11.5 steady.

S = 12.0 glimpses

Because hazy. It would be therefore

9.7 worse than a waste of time to continue in this kind of work.

✓ S Ursae Maj

~~4~~ 4557

v 3 m

9.8 haze makes obs. doubtful

v = 10.8

9.9 5157 ✓ S Bootis

e 2 v

v 6 f

v = 8.5

10.2 5190 ✓ R Camelop

e 3 v

v 1 f

v = 9.3

10.3 5955 ✓ R Draconis

l = v

v 3 m

v = 10.

Tuesday April 3 1894

10.7 8591 V ~~Cyg~~ Cephei

h 2 V
V 2 k
V = 7.

4940 Hydrae
θ 2 V
V = 7.

~~clouds approaching [illegible]~~

Thursday April 5 – 1894

4940 √ (W?) Hydrae

clouds approaching make obs. a little doubtful.

11.9 θ 2 v

v = 7.

12.2 5770 √ R Herculis

~~f 2 v~~

f 3 v

v 2 g

19.6
17.9
37.5
18.75 = 8.52

v = 8.

a carefully made observation.

12.4 5952 √ Y Herculis

f 2 v

v 6 h

v = 6.8

12.6 6044 √ S Herculis

invisible < 12.

12.7 6624 √ T Serpentis

t 2 v

v 4 u

v = 11.

W = 11.5

N < t

Thursday April 5 1894

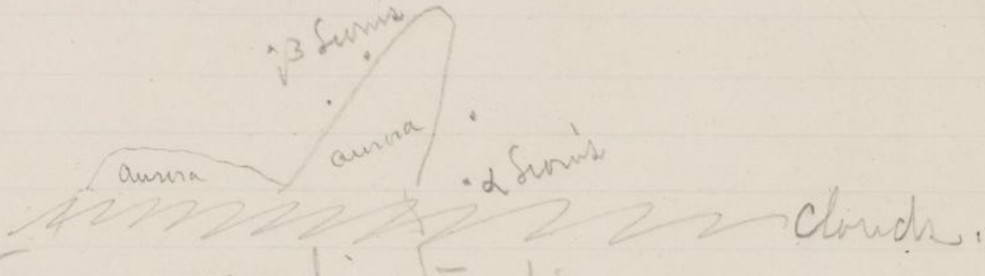
13.0 5194 ✓ V Bootis
λ m
l 3 v
v 2 m
v = 8.

13.4 5504 ✓ S Coronae
v 4 g
v = 6.8

13.7 5675 ✓ V Coronae
v = 10.2
v 4 k

clouds present
prevents obs.

15:25 Aurora
Bright patch in the West,



streamers according to diagram

Friday April 6 1894

13:30 Faint auroral streamers seen in the north to N 30° W through openings in clouds.

13.8 5750 ✓ X Herculis
k 5 v
v 2 l
v = 6.8

14.0 5950 ✓ W Herculis
l 5 v
v 1 α
v = 10.

✓ S Sagittae
14.1 b 1 v

6005 ✓ S Draconis
14.4 m 2 v
v 2 n
v = 8.7

14.7 7085 ✓ RT Cygni
π 3 v
v = 11.

14.9 7120 ✓ χ Cygni
ξ 2 v
v = 11.

15.1 7259 ✓ RS Cygni
ρ 3 v
v = 0
v = 7.5

Friday April 6 1894

15.2 7299 V Cygni

γ=v

v=1β

v=8.

15.3 7428 V Cygni

β(n)4(o)γ

γ(o)4-5(n)m

β(m)5v

v 1(n)m

v=10.

15.5 7456 RR Cygni

m4v

v 1m

v=9.

β Lyrae

γ 4β

β1ζ

15.9

15.9 R Lyrae

L 1 v

v=δ

v 3 k

Friday April 6 1894

✓ δ Cephei

15.9 ι 2 v

v 4 ζ

✓ η Aquilae

15.9 δ 4 6 η

η 2 β

✓ g Herculis

16.0 x ε 2 v

v 2 L

✓ α Herculis

d 4 v

16d v 1-2 e'

v = 3.8

6733 ✓ R Scuti

16.1 f 2 v

v 1 g

v = 6.

Sunday April 15 1894

11.9 5770 ✓ R Herculis

g 3 ~~4~~ v

v ~~&~~ 1-2 h

v = 8.8

22.9
22.4
22.65
8.86

8.9
8.75
1.65
.82

5856 ✓ W Ophiuchi

var. probably invisible < 11.5 but identification uncertain on account of moon light.

5887 ✓ V Ophiuchi

13.7 g 3 h

h 3 v

v = k

v = 7.7

13.9 5928 ✓ T Ophiuchi

g 4 v

v 2 h

v = 9.1

6834 ✓ V Aquilae

14.1 v = β

α 5 v

v = 8.5

α = γ

Sunday April 15 1894

15.7 ✓ R Lyrae E
o 2 v
v 2 l

✓ β Lyrae
v 1 ζ
v 4 o

15.8 ✓ η Aquilae E
v 1 β

✓ R Scuti
v 1 f Opglass

✓ g Herculis
c 3 v
l 2 v E

Monday April 23 189~~3~~4

Partly cloudy in East.

9.9 2976 ✓ V Cancri
K 3 v
v 3 l
✓ v = 8.5

10.7 3060 ✓ U Cancri
f 6 g
g 6 h
g 4 v
v 2 h
v = 9.5

10.7 3109 ✓ S Cancri
d 3 v
v = e
✓ v = 8.

10.9 3170 ✓ S Hydrae
d 4 v
ε 1 v
✓ v = 8.

11.0 3186 ✓ T Cancri
δ = v
v 2 ε
v = 7.5

Wednesday April 2~~4~~5 189~~3~~4

14.8 5156 ✓ X Bootis Mr
h = v
v 5 k
v = 9.

5237 ✓ ~~B~~ R Bootis
q 5 v
v = s
v = 9.5

14.9

✓ β Lyrae

15.0
γ 2 β
β 4 ξ

5336 ✓ U Bootis
15.3
v 1 m
v = 9
m 7 n

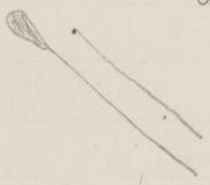
15.4 5501 ✓ S Serpentis
v 6 q
v = 10.

5667 ✓ R Coronae
f 2 r
v 1 q
v = 7.

Wednesday April 25 1894

Meteor

15.20 w 2R, followed by small continuum as in figure. Mag = 5th



S.T. 18h 8m

h a 2h 5m W

$\alpha = 16^h\ 2^m\ \delta = +19°$

15.7 5770 ✓ R Herculis

K 2 v

v 1 l

v = 8.6

✓ R Lyrae

o 3 v

v 1 ζ

v 3 d

15.8 ✓ η Aquilae

β 4 η

η = ε

✓ R Scuti

f 1 v

v 2 g

Thursday April 26 1894

8:39 Meteor

motion N 30 W 7.5 magn. 4 Red. Slow

d ~~7 36~~ δ + 8°

S.T. 11:8 from 2 30 W

8.9 2735 ✓ U Canis Min

invisible < 12.

t visible

9.3 2946 ✓ R Cancri

f 2 v

v = 11.

9.3 3567 ✓ V Leonis

f 7 v

v = 9

v 3 h

v = 8.8

9.4 3890 ✓ W Leonis

g 4 v

v 2 h

v = 9.

9.6 3994 ✓ S Leonis

invisible < 12

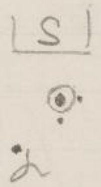
d visible

Thursday April 26 1894

1623 √ T Camelop.

v = 10.

9.9 If identification correct variable is as follows.



α N 3′± preceding

v 3 α

10.0 1981 √ S Camelop.

g 3 v

v 1 k

v = 8.

10.1 2258 √ V Aurigae

o 3 v

v 3 p

v = 10.8

10.3 3477 √ R Leonis Min.

v 1 γ

v = 11.

10.9 √ +62 596

v. 2 ξ

v = 8.

11.3 ~~1055~~ 3934 √ R Crateris

m 2 v

v = 8.8.

Thursday April 26 1894

4492 ✓ Y Virginis
invisible < 12
q visible

4826 ✓ R Hydrae
clouds make obs
11.4 doubtful. v about = 8.t
certainly } u
" { s
v = 8.2

11.7 4847 ✓ S Virginis
g 5 v
v 1 h
v = 8.5

11.8 5037 ✓ RR Virginis
h ~~4~~ 3 v
v 2 k
v = 11.

11.9 5249 ✓ V Librae
u 2 v
v 3 w
v = 9.

12.1 5430 ✓ T Librae
v invisible < 12

12.2 5494 ✓ S Librae
l = v
v ~~2~~ 2 m
v = 8.7

Thursday April 26 1894

5511 Librae

14.4

e 3 f
f 6 g
d 6 e

v 2 e
v = 9.

14.4 5583 X Librae
v = g
v = 11.3

6 5617 U Librae
invisible < 11.5

7 5644 Z Librae
v = R
v = 11.3

8 5593 W Librae
v invisible < 11.5
p visible

15.0 5698 R Librae
v invisible < 11.

RR Librae
15.1 5904 invisible < 11.5
Y visible

Thursday April 26 1894

15.2 5776 ✓ X Scorpii

e = v

v 2 f *

v = 10.4

15.3 6636 ✓ V Sagittarii

γ 5 V

v 2 g

v 4 d

15.6 5338 ✓ V Bootis (+18° 6') ?

m 4 - 5 V

v = 11.

✓ β Lyrae

$\underline{\beta} = \gamma$

$\underline{\gamma}$ 2 β

15.7 ✓ R Lyrae

0 4 v

v 1 δ

ξ 1 v

✓ η Aquilae

β 2 η

η 1 ε

✓ δ Cephei

ζ 3 δ

δ 6 ξ

15.7

Thursday April 26 1894

15.8 √ R Scuti

f 3 v
v 1 g

√ g Herculis
v 2 v

15.9 √ S ~~R~~ Sagittae
b 4 v
v 2 g

Sunday April 29 1894

432 ✓ S Cassiop.
8.4 invisible < 11.5

1855 ✓ R Aurigae
b 2 v
v 4 c
v = 7.2

2478 ✓ R Cygnis
8.5 g 3 v
v 3 h
v = 9.

3825 ✓ R Ursae Majoris
8.7 var not certainly identified
probably < 11.5

2857 ✓ V Puppis
R 3 v
8.9 v 2 s
v = 10.5

9.0 3148 ✓ T Hydrae
p 3 v
v = 10.

9.1 3881 ✓ V Hydrae
e 3 v
v 4 f
v = 7.

Sunday April 29 1894

9.3 4377 ✓ T Virginis
Invisible < 11.5
j visible

✓ R Corvi
9.4 4407 var Invisible < 11.5
φ + visible

✓ R Geminorum
9.6 2528 v 3 θ
v = 9.5

9.7 2539 ✓ R Canis Min.
v 2 g
v = 8.

✓ V Geminorum
9.8 2625 v Invisible < 11
suspect I get glimpses of it.
Send word to Wendell that I have never
seen it so bright.

2684 ✓ S Canis Min
g 6 v
v = h
v 4 k
9.9 v = 9.

Sunday April 29 1894

10.0 2691 ✓ T Canis Min
van invisible < 11.
Identification uncertain (look up).

10.3 2780 ✓ T Gemini
δ 3 v
v 2 T
v = 10.5

10.4 2742 ✓ S Gemini
v invisible < 11.3

10.6 3712 ✓ U Leonis
van seen by glimpses = 12.
w 3-4 v

10.9 4300 ✓ X Virginis
n 2 v
v 3 0
v = 10.

Suggest that this star be looked up on photo's
its constancy in brightness remarkable.

11.1 4805 ✓ W Virginis
k 2 v
v 6 l
v = 9.

11.5 4816 ✓ V Virginis
f 2 v
f v 4 g
v = 8.5

Sunday April 29 1894

11.7 4826 ✓ R Hydrae

S 4 v
t 1 v
v 3 u
v = 8.

4940 ✓ W Hydrae

11.8 θ 2 v
v 5 ε
v = 7.2

11.9 5070 ✓ Z Virginis
v invisible < 11.5
w invisible

5830 ✓ R Scorpii
12.0 invisible < 11.5

5831 ✓ S Scorpii
invisible < 11.5

5826 ✓ T Scorpii
12.1 invisible as usual

5856 ✓ W Ophiuchi
12.2 h 3 k
X ~~W~~ v invisible < 11.5

Sunday April 29 1894.

12.5 5887 √ V Ophiuchi
K 3 v
v 2 l
v = 7.8
K 5 l

X √

12.8 5903 √ Y Serpii
g 3 v
v 2 h
v = 10.5

√

129 5931 √ S Ophiuchi
v minimum <12.

√

13.0 5928 √ T Ophiuchi
h 3 v
v 2 k
v = 8.8

√

13.1 6132 √ R Ophiuchi
v = φ
v = 12.

√

13.2 6636 √ U Sagittarii
v = α
v 3 β
v = 7.3

√

13.3 6834 √ V Aquilae
α 5 v
v = β
v = 7.6

Sunday April 29 1894

13.5 6903 ✓ T Sagittarii

✗ q 4 R
R 5 S

V 2 q
V = 8.8

4557 ✓ S Ursae Maj.

13.7 m 2 V
V 2 O
V = 11.

q seen by glimpses = 12.
p seen steadily + easily = 11.5

1 S.T. $17^h 25^m$

5157 ✓ S Bootis

14.9 c = V
V 2 d
V = 8.

15.0 5190 ✓ R Cameloparid.
h 4-5 v
obs doubtful clouds.

Aurora

$15^h:5^m$ Arch ~~aa~~ 2 mag. alt of lower edge at apex = 6°. thickness 1½° faint streamers extend up for 20°-30°.

15:20 Arch broken up into patches.

Tuesday May 1 1894

8.5 1923 ✓ S Aurigae
v invisible < 12.
t visible

5 5 51.5
5 35.5
11 26 0

8.8 2013 ✓ U Aurigae
v 2 f
v = 8.8

9.3 4731 ✓ S Canum Venaticorum
m 4 v
v 2 0
v = 9.

9.4 4948 ✓ R Canum Ven.
✗ x 3 w
u 2 v
(v 2 x)
v = 10.

10.0 5194 ✓ V Bootis
h 7 v
✗ v 1 k
k 4 l
v = 8.5

Tuesday May 1 1894

10.2 5504 ✓ S Coronae
v 3 g
v = 7.6

✓ V Coronae
10.7 5675
~~f 3 g~~
~~g 4 h~~
~~h 6 k~~

f 1 v
v 2 g
v = 8.9

10.8 5758 ✓ X Herculis
k 2 v
v 1-2 l
v = 7.

11.0 5950 ✓ W Herculis
β 4 v
v = γ
✓ v = 10.8

11.1 5952 ✓ Y Herculis
f 5 v
v 2 h
v = 7.6

Meteor

11:15 N 5° W 7.5 magn 3R. yellow.
S.T. 14:5 h.a. 2^h 34^m E α 16^h 41^m + 55°

Tuesday May 1 1894

11.3 6005 ✓ S Draconis
K 3 v
v 2 l
v = 8.1

X l 6 m

11.4 6512 ✓ T Herculis
v 1 l
v = 9.3

11.6 6624 ✓ T Serpentis
v invisible < 12
u visible
π invisible
α visible = 11.8

11.7 7045 ✓ R Cygni
φ 2 v
v 5 ξ
v = 9.4

11.8 7085 ✓ RT Cygni
a 4 v
v 1-2 K
v = 9.5

11.9 7120 ✓ χ Cygni
v invisible

Tuesday May 1 1894

12.1 7192 Z Cygni

ζ 2 v
v 3 ζ
v = 8.8
ζ 3 β

12.3 7259 RS Cygni

R 4 v
v 1 p
v 4-5 0
v = 7.5

12.3 7299 U Cygni

β 5 v
v = 8
v = 8.8

12.5 7428 V Cygni

q 4 v
v = R
v = 10.5
m (p) 5 (q) n
m (q) 4 (R) 10

12.6 7437 X Cygni

m 1 v
v 1 n
v = 7.5

Tuesday May 1 1894

12.7 7456 ✓ RR Cygni

j k 2 v

v 6 ℓ m

v = 8.5

13.0 7783 ✓ RU Cygni

ε 2 v

v 2-3 y

v = 9.1

14.1 5955 ✓ R Draconis

p = v

v = 11.7

.2 7220 ✓ S Cygni

Invisible < 11.5

3 7609 ✓ T Cephei

h 2 v

v 3 g

v = 8.6.

4 7779 ✓ S Cephei

g 2 v

v 3 h

v = 9.2

14.5 ✓ β Lyrae

γ 3 4 β

β 1 ε

β 5 0

Tuesday May 1 1894

14.5 √ R Lyrae

S 1 V

V 1-2 δ

8600 √ R Cassiop

14.6 m 3-4 v

v = 0

v = 9.

107 √ T Cassiop

14.7 e = v

v 4 f

v = 7.6

7795 √ RV Cygni

14.8

v = m

v = 8 magn.

v = 9 Red

8068 √ S Lacertae

14.9 d 3 v

v = f

v = 10.5

May 2 Wednesday 1894

9.2 √ +62 .596
e 5-6 v
v 1 j
v = 8.5

Saw observed faint band
in Leo & Cancer.

Looked for 25 minits without seeing a meteor.

45 21 √ R Virginis
11.0 o 1 v
v 5 p
v = 8.4

4596 √ U. Virginis
11.1 K 3 v
v 3-4 l
v = 8.5

11.2 5677 √ R Serpentis
invisible < 12
φ invisible

11.3 5770 √ R Herculis
l 3 v
v 4 m
v = 9.1

11.4 5889 √ U Herculis
v 2 d
d 2-3 e
v = 6.8

Wednesday May. 2 1894

11.5 6044 √ S Herculis
v invisible {12
α invisible {12
β visible

11.7 6682a √ X Ophiuchi
α 2 v
v = 7.5

11.9 6726 √ T Aquilae
K 6 v
v 1 l
v = 8.8

6849 √ R Aquilae
R = v
12.2 v = 9.

12.3 6943 √ T Sagittae
K 1 v
v 2 l
v = 8.5

12.4 7106 √ S Vulpeculae
l 2 v
v 3 m
v = 8.6

12.5 7242 S Aquilae
v = α
v = 9.

Wednesday May. 2 1894

12.6 7257 √ R Sagittae
h 2 v
v 2 k
v = 8.5

12.6 √ β Lyrae
γ 2 β
β 4 ξ

12.6 √ R Lyrae
ξ 1 = v
v 2 δ

13.8 7261 √ R Delphini
γ 5 v
v = δ
v = 12

13.9 7431 √ S Delphini
h 6 v
v = k.
v = 9.

14.2 7444 √ T Delphini
t 6-7 v
v = 12.

14.3 7446 ~~7431~~ √ U Delphini
I 2 v
v 1 m
v = 6.8

Wednesday May 2 1894

✓

14.5 7560 R Vulpeculae

φ 6 v
v = 12

✓

14.6 7944 ✓ T Pegasi
Invisible < 11.5

✓

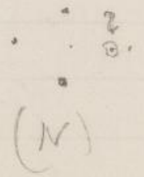
15.0 6905 ✓ R Sagittarii
α = v
v = 8.8

✓

15.1 6921 ✓ S Sagittarii
v Invisible < 11.5

6923 ✓ Z Sagittarii
v = 11.
Identification uncertain

15.2



✓

15.3 η Aquilae
β 5-6 η
η 2 ϑ

✓

16.3 δ Cephei
β 4 δ
δ 2 ι

Wednesday May 2 1894

15.3 ✓ g Herculis

v = c

v 2 e

v = 5.

15.4 ✓ R Scuti

f 2 v

v = g

v = 6.3

15.4 ✓ S Sagittae

b 2-3 v

15.5 ✓ α Cassiop

α 1 β

α 1-2 γ

15.5 ✓ μ Cephei (δ Cephei Comp. Stars)

α 2-3 μ

μ 3 γ

May 3. 1894 Thursday

2735 √ U Canis Min.

8.8 v invisible < 11.

s visible

9.0 678 √ U Persei

v 2 e c or e?

v = 7.8

haze ~~moon~~ + Electric light make observation very doubtful.

Traced faint band of light in Leo + Cancer.

I could see no trace of light in the western part of Virgo.

3826 √ R Ursae Maj

S.T. 12h 30m t seen steadily = 11.5

u .. by glimpses = 12.0

9.6

~~Seen~~ Definition very unsteady. Apparently perfectly clear. Clouds on E + N horizon.

v an seen about = u

v = 12.

5190 √ R Camelop

S.T. 13h 0m m seen w. difficulty = 11.7

n .. by glimpses = 12.0

10.1 h 1 v

v 3 k

v = 10.

Thursday, May 3 1894

5955 ✓ R Draconis

10.4 S.T. $13^h 20^m$

p 2 v
v 3 q
v = 10.8

q seen steadily = 11.5
R " by glimpses 12.

observed faint band in
Virgo & Libra.
see tracings.

✓ β Lyrae

11.7 γ 3-4 β
β 2 ζ

✓ R Lyrae

11.7 I 1 ~~2~~ v
v 1-2 d

✓ α Herculis

11.8 a 4-5 v
v 1-2 d

✓ g Herculis
c 2 v
l 1 v
v 5 d
v = 5.5

Fire at Smith Hall

Thursday May 3 1894

Monday May 7 1894

h m
10:45 Gegenschein
see tracing of this date.

11:3 4521 ✓ R Virginis
o 4 v
v 1-2 p
v = 9.
obs. very doubtful on account of passing clouds. It may be 2 or 3 grades in error.

45-96 ✓ U Virginis
v = 8.5
11.8 k 1 v
v 2 l

clouds / also ——

✓ β Lyrae
12.3 γ 6 v
v 1 ζ

12.5 5156 ✓ X Bootis
g 2 v
v 3 h
v = 9.

Tuesday May. 8 1894

10.0 3170 √ S Hydrae
ε 3-4 v
v 2 δ.
v=8.

10.1 3186 √ T Cancri
δ 3 v
v 3 γ
v=8.

10.4 3567 √ V Leonis
k 3 l
l 4 m

k 1-2 v
v 1-2 l
v = 8.8

10.6 3712 √ U Leonis
Invisible < 11.

10.7 3890 √ W Leonis
g 2 v
v 3 h
v=8.5

10.8 4300 √ X Virginis
m 3-4 v
v 2 o
v=9.

~~Ph~~ Tuesday May 8. 1894

10.9 4315 √R Comae

v Invisible {12.
d visible

Wednesday May 9 1894

12.0 5237 √ R Bootis

m 3 v
v 4 n
v = 8.

12.2 5338 V Bootis

m 50

o 1-2 v
v 2 p
v = 9.5

12.3 5501 √ S Serpentis

k 3 v
v 2 l
v = 8.5

12.5 5667 √ R Coronae

v = 7.
h 3 v
v 4 k

midnight
(dinner

13.5 5677 √ R Serpentis

Invisible < ~~11 12~~ 11.5.
p invisible

14. Surfacing of [illegible]

14.6 √ R Herculis

v 1-2 m
v 4-5 m
v = 9.

Wednesday May 9 1894

14.7 ✓ β Lyrae

β = γ

γ 2 β

14.8 ✓ R Lyrae

o 4 v

v = ξ

v 2 δ

✓ η Aquilae

14.9 ε 2-3 v

v 2 ~~x~~ ι (new)

14.9 ✓ δ Cephei

ε 3-4 δ

δ = γ

15.0 ✓ μ Cephei

ε 4 v

v 1 γ

15.1 ✓ S Sagittae

c = v

v 3 b

✓ R Scuti

15.2 f~~g~~ 1 v

v 3 ~~f~~ g

15.2 ✓ g Herculis

v 1 ε

v 1-2 b

Friday May 11 1894

10.0 5889. √ U Herculis
v 6 e
v = 6.5

10.6 5952 √ Y Herculis
f 2 v
v 6 h
v = 6.5

10.7 6044 √ S Herculis
invisible < 11.5

11.1 6682 X Ophiuchi
α 2 v
v 5 y
v = 8.

11.4 6726 √ T Aquilae
k 5 v
v 2 l
v = 8.8

S. gem. chain
see tracing

Friday May 11 1894

(13.7 ✓ β Lyrae

ζ 2 1 v
v 2 0.

(13.7 ✓ R Lyrae

0 3 v
v = γ
v 2 δ

Saturday May 12 1894

11.1 66^{24} T Leporis
Invisible $\alpha < 11.5$
α invisible

Clouds

Sunday May 13 1894

M

10.1 4816 V Virginis
e 2 v
v 2 g
v = 8.

10.1 4805 W Virginis
l 1 v
v 5 m
v = 9.

10.3 4826 R Hydrae
u 2 v
v 3 w
v = 9.

10.4 4847 S Virginis
f 2 v
v = g
v 6 h
v = 7.2

10.5 4940 W Hydrae
θ 2 v
α 5 v
v = 6.5.

10.6 5037 RR Virginis
invisible < 10.5
h visible

10.6 5070 Z Virginis
invisible < 11.

Sunday May 13 1894

Wm

10.8 5430 T Librae.
v invisible < 10.5

11.0 5494 S. Librae
f 6 v
v = g
v 5 h
v = 8.1

11.1 5511 Librae (-22°)
d 6 e
v 1 d
v = 6.7

11.2 5583 X Librae
v invisible
R visible

5617 U Librae
v invisible < 10.5
11.2 R visible

11.3 5644 Z Librae
s = v
v 4 t
v = 10.

11.5 5976 X Scorpii
obs. difficult & ?
doubtful two ± 2 grades
g 2 v
v 2 k
v = 10.5

Sunday May 13. 1894

11.7 5761 ✓Z Scorpii m
v invisible <10.
m visible

11.7 5795 ✓W Scorpii
v invisible <10.5

11.7 ✓T + ✓S + ✓R Scorpii (5826, 5831, 5830)
v's invisible <10.5

W Ophiuchi
moon light too bright to make identification certain.

12.0 5887 ✓V Ophiuchi
K 5 v
v 2 l
v = 7.8

12.1 5931 ✓S Ophiuchi
invisible <10.

12.2 5928 ✓T Ophiuchi
k 5 v
v = l
v 5 m
v = 9.5
K 4 l
l 4 m

12.3 6132 ✓R Ophiuchi
invisible

Sunday May 13 1894

12.5 6636 U Sagittarii m

α 2 v

v 4 β

v = 7.5

12.5 6834 V Aquilae

v 2 β

v = 7.8

12.6 6903 T ~~R~~ Sagittarii

n 4 v

v 2 o

v = 9.

n 5 o

o 4 p

p 4 q

12.9 6905 R Sagittarii

v invisible < 10.5

13.0 6921 S Sagittarii

v invisible < 10.5

13.2 6923 Z Sagittarii m

v = m

(dinner)

v = 10..

14.2 6981 U Aquilae

f 5 v

v = g

v = 6.8

Sunday May 13 1894

14.3 7234 √. R Capricorni
v Invisible <11.

14.6 7252 √ W Capricorni
Invisible <11.

14.7 7455 √ Y Capricorni
Invisible <11.

14.8 7468 √ T Aquarii
α 3 v
v = 10.5

14.9 √ η Aquilae
β = η

14.9 √ β Lyrae
o 1 v
v 2 ζ

15.0 √ R Lyrae
o 3 v
v = ζ
v 2 δ

15.0 √ δ Cephei
ζ 3 v
v 1 ε.

15.1 √ g Herculis
v 1 ε
v 1 ε

Monday May 14 1894

11.2 3477 R Leonis Min. m
Invisible < 10.
but moon light too bright for accurate obs.

11.3 4731 a S Canum Venatici
m 2 v
v 3-4 o
v = 8.8.

11.7 6512 T Herculis m
v = ϕ
v = 8.5

14.0 7045 R Cygni
v = ψ
v = 7.1

14.1 7085 RT Cygni
α 4 v
v 2 d
v = 7.5

14.2 7192 Z Cygni
η 6 v ζ 6 v ?
v 2 η
v = 7.5

14.3 7259 RS Cygni
R 3 v
v = μ
v = 7.5

Monday May 14 1894

14.5 7299 ✓ U Cygni
β 3 v
v = γ
v = 8.

14.6 7351 ✓ RW Cygni
m 2-3 v
v = 9.

14.7 7428 ✓ V Cygni
~~R 4 v~~ R 5 v
~~v 2-3 s~~ v 3 s
v = 10.5

14.8 7437 ✓ X Cygni
v 1-2 m
v 3-4 m
v = 6.5

14.9 7456 ✓ RR Cygni
v 1 m
v = 8.5

15.0 7783 ✓ RU Cygni
ε 6 v
v = η
v 6 φ
v = 9.

15.1 ✓ β Lyrae
γ 6 β
β 1 ζ

15.1 ✓ R Lyrae
v = 1 ζ
v 3 δ

Monday May 14 1894

15,2 ✓ δ Cephei

ε 2 δ

δ 1 ζ

15,2 ✓ η Aquilae

η 1 = β

η 4 ε

Tuesday May 15 1894

8.7 1981 ✓ S Camelop **M**
h 4 v
v 1 k
v = 8.5

2013 ✓ V. Aurigae
v 4 f
v 1 e
v = 8.8

8.9 2258 V Aurigae
M too bright for identification

3184 ✓ T Hydra
invisible ; | **M**
< 8.5

9.1 3881 ✓ V Hydrae
~~f 3 v~~ e 3 v
~~v 3 e~~ v 3 f
v = 7.

9.3 3934 ✓ R Crateris
l 6 v
~~v 1 f~~
m 1 v
v = 8.5

9.3 4377 T Virginis
M too bright < 8.5

Tuesday May 15 1894

9.5 5504 ✓ S Coronae ✓m

v 3 g
v = 7.85

9.6 5675 ✓ V Coronae

α 3-4 v
v 2 β
v = 8.1

9.6 5758 ✓ X Herculis

K 2 v
v 3 l
v = 7.0

9.7 5950 ✓ W Herculis

<8.5
m too bright

9.7 6005 ✓ S Draconis

m 1 v
v 4 n
v = 8.5

✓ R Cygni

e 5 v
10.0 2478 v 1 f
v = 8.8

10.2 4557 ✓ S Ursae Maj

l 5 v
v 2 m
v > 10.

Tuesday May 15 1894

10.2 4511 ✓ T Ursae Maj. M
invisible

10.3 5190 ✓ R Camelop
invisible <9.5

10.3 5955 ✓ R Draconis
invisible <10.
m invisible

10.4 7220 ✓ S Cygni
invisible <10.5

10.5 7609 ✓ T Cephei
f 3 v
~~v 3 h~~
v = h
v = g.

✓ R Lyrae
11.2
δ 2-3 v
v 1 ζ
v 3 λ

r 2
ζ 8
5.5 3
5. 4.2
5.

✓ β Lyrae
11.4
γ 1 v
v 4 ζ

γ 3-4 v
v 3 ζ

Tuesday May 15 1894

11.6 6624 ✓ T Serpentis — m

invisible <10.5.

d visible

11.7 ~~6948~~ 6849 ✓ R Aquilae

q 5 v

v 2 R

v = 8.9

11.8 6943 ✓ T. Sagittae

R 6 v

v 1 l

v = 9.

20 7
4 24
15 43

11.9 7106 ✓ S Vulpeculae

l 6 v

v 1 m

v = 8.8

12.0 7242 ✓ S Aquilae

d 4 v

v = β

12.1 7257 ✓ R Sagittae

h 6 v

v = k

v = 8.8

12.2 7261 ✓ R Delphini

invisible <10.

Tuesday ✓ May 15 1894

13.1 ✓ η Aquilae M
ε 1 v
v 3 v (Nu)

13.3 7431 ✓ S Delphini
k 1 v
v 1 l
v = 9.

13.4 7444 T Delphini
✓ var not identified ? M

13.5 7446 ✓ V Delphini
ξ 2-3 v
v 3 η
v = 7.

14.0 7944 ✓ T Pegasi
Invisible < 10.5
✓ & visible M

14.1 8290 ✓ R Pegasi
v = α
v = 8.5

14.2 7295 ✓ RV Cygni
m 1 v
v 4 m
v = 8.5

14.3 8068 ✓ S Sagittae
v = h
v = 11.

Tuesday May 15 1894

W 16
Th 7
Fr 8
S 9
S 20
M 21
M

14.5 ✓ 8116 W Cephei
m 1 v
v = 7.5

Wells Var.
Identification Uncertain

14.7 8153 ✓ R Sagittae
v Invisible < 11.5
θ visible

14.8 112 ✓ R Andromedae
α 3 v
v = 7.5

14.9 243 ✓ V Cassiop
ξ 5 v
v 1 η
v = 11.

15.0 320 ✓ U Cephei
α 4 v
~~v = 6.~~
v = 7.

Monday May 21 1894

4377 ✓ T Virginis

9.7 Invisible < 12

g visible by glimpses

10.2 ✗ 4407 ✓ R Corvi

I suspect that ø is the variable. and when inserted on the chart it was mistaken for the var.

v 2 d

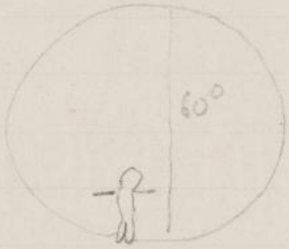
v 6 n

v 2 9.5

M

Dense Fog.

~~a very b~~ a bright bow formed in fog similar to Rain Bow only not colored. See fig.



moon

Tuesday ~~April~~ May 22 189~~3~~4

✓ R Herculis m

13.5 5770 m4v
v2m
v = ~~10~~. 9.

13.6 6624 ✓ T Serpentis
invisible < 11.

13.7 6849 ✓ R Aquilae
p1-2v
v3-4q
v = 7.5

14.0 6943 ✓ T Sagittae
k4v
v1l
v = 9.

14.2 7106 ✓ S Vulpeculae
l = v
v5m
v = ~~8~~9.

678 ✓ U Persei
14.5 c3v
v2d
v = 8.3

Tuesday May 22 1894

14.7 ✓ +62.596 m
v = 7.15
v = e
v = 10 R1

✓ β Lyrae m
γ 1 β

✓ R Lyrae m
v 3 ξ
v 1 = o

✓ δ Ophii Sm
δ 2-3 ξ
γ 5 δ

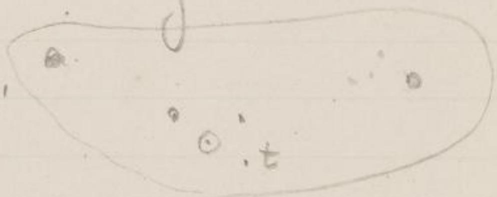
14.8 ✓ μ Ophiu m
ϵ 4 μ
μ 2 γ

Sunday May 27 1894

8.7 4315 ~~1415~~ — ✓ R Comae
invisible < 11.
d visible

clouds

10.2 3825 ✓ R Ursae Maj
t 2-3 v
v = 12.



10.4 3567 ✓ V Leonis
I think I catch glimpses of
the variable
v = 12.

10.6 ✓ 5511 — Librae
f 4 v
v 2 g
v = 8.

10.7 5583 ✓ X Librae
v invisible < 12
g visible

10.8 5644 ✓ ~~S~~ S Z. Librae
R = v
v 5 s
v = 10

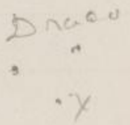
obs. difficult.

Sunday May 27 1894

5617 √ U Librae
invisible < 11.5

5776 √ X Scorpii
11.1 k = v
v = 11.8
hardly k + v seen by glimpses.

11.4 6733 √ R ~~Scorpii~~ Scuti B.
f 2 v
v 3 g
v = 6.1



11.6 √ R Lyrae
x 2 v
v = 0
v 3 I

11.6 √ β Lyrae
γ 4 6 v
v 1-2 ξ

~~Tuesday~~ Tuesday May 29 1894
~~Wednesday May 30 1894~~ ?
date doubtful
night of Churchill reception.

12.5 ✓ 5856
5836 W Ophiuchi
l = v
v = 12.

12.7 5037 ✓ RR Virginis
invisible < 12
K visible

12.8 5494 ✓ S Librae
e 7 v
f = v
v 7 5 g
v = 8.5

12.9 5430 ✓ T Librae
invisible < 12.

13.7 ✓ R Lyrae
x 1 $\underline{v}$
v = 1 $\underline{x}$
v 2 $\underline{y}$
o 2 v

13.8 5887 ✓ V Ophiuchi
l = v
v 3 m
v = 8.

14.0 6132 ✓ R Ophiuchi
invisible < 11.5

6636 ✓ U Sagittarii
v 3 g
v = 7.

Tuesday May 29 1894

6633 ✓ V Sagittarii
14.2
α 4 v
v 8 = β
v = 8.5

14.4 ✓6834 V Aquilae
α 6 v
v 2 β
v = 8.1

14.6 6903 ✓ T Sagittarii
l 8 v
v 3 2 m
v = 8.

5 49
29
78

Friday June 1   1894

10.9 √ 4948 R Carinae Var.

p 2 v
v 2 q
v=q,

Showed the stars to a part of Senior class during first part of evening.

June 1894

S	m	Tu	W	Th	F.	Sat.
					1	2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30

Sunday ~~An~~ June 3 1894

10.0 4521 ✓ R Virginis

γ 5 α
α 5-6 δ
δ 2 v
v 1 γ
v = 10.5

10.2 4596 ✓ U Virginis

θ n 5 o
o 2 μ
μ 4 v
v = 10.5

Monday June 4 1894

9.1 5156 ✓ X Boötis
v=l
v4k
v=10.

9.2 5237 ✓ R Boötis
g3v
v4h
v=8.5

clouds forming make obs. doubtful.

Clouds Damn It!!

10.3 5501 ✓ S Serpentis
e4v
v1f
v=8.5

10.4 5669 ✓ R Coronae
v=7.
g1v
v2h

10.5 5677 ✓ R Serpentis
invisible < 11.5 φ visible

10.7 5770 ✓ R Herculis
o=v
m4v
v=10.

10.6 5889 ✓ U Herculis
e6v
v=f
v3g
v=7.

Monday June 4 1894

5952 ✓ Y Herculis

10.9 f 6 v

v 4 g h

v = 7.1

11.0 6044 ✓ S Herculis

p 6 v

v = β

v = 11

α Invisible. < 12.

11.1 6682 ✓ X Ophiuchi

v 1 α

v = 7.5

11.2 6726 ✓ T Aquilae

k 4 v

v 2 l

v = 9.1

11.3 7242 ✓ S Aquilae

β 3 v

v = γ

v = 10.5

11.4 7257 ✓ R Sagittae

h 5 v

v 2 k

v = 8.8

11.7 7261 ✓ R Delphini

m 2 v

v = n

v = 10

G.M.T. − 5h

Monday June 4 1894

11 52 Meteor

S 20° W Red = 8. slow 8.5 magn.

α 20 38 δ +17 ha 3h 39m S.T. 17h.

7431 ✓ S Delphini

11.9 v = l

v 5 m

✓ v = 9.

12.0 7446 ✓ U Delphini

v = y

✓ v = 7.

12.1 7444 ✓ T Delphini

v seen by glimpses = 12.

✓ v = t

7560 ✓ R Vulpeculae

12.3 <12. ✓ invisible if visible

7944 ✓ T Pegasi

12.4 invisible <11.5

4847 ✓ S Virginis

12.6 g = v

v 6 h

v = 8.

Σ makes obs. doubtful

12.7 5249 ✓ V Librae

v = x

v = 10.5

5494 ✓ S Librae

12.9 e 5 v

v 5 g

v = 9.5

Σ & obs. a little uncertain.

Monday June 4 1894

13.2 5688 R Librae
Invisible < 11.

13.3 5704 √ RR Librae
m 6 v
v = n
v = 9.

13.6 8290 √ R Pegasi
v = β
f 6 v
v = 8.

13.8 161 √ T Piscium
α 5 v
v = β
v = 11.

14.0 8116 √ W Cephei
l 1 v
v 1 m
v = 7.5

107 √ T Cassiop
d 5 v
v 2 e
v = 8.5

14.2 814 √ S Persei
c 6 v
d' 2 v
v 1 d
v 4 e
v = 8.5

Monday June 4 1894

14.3 1855 √ R Aurigae
v = d
v 6-7 e
v = 7
√ δ Cephei
14.4 ι = v
v 5 γ
ζ 6 v
14.5 √ μ Cephei
ι 2-3 v
v 4 γ
√ R Lyrae
14.5 o 2 v
v = ξ
o = v
v 3 ξ
√ β Lyrae
14.6 γ 1 β
β 3 ζ

γ 3 β
β 3-4 ζ
√ η Aquilae
14.6 β = v
v 3 ε
√ R Scuti
14.7 f 1 v
v 2 g
v = 6.5

Monday June 4 1894

14.7 √ S Sagittae

c2v

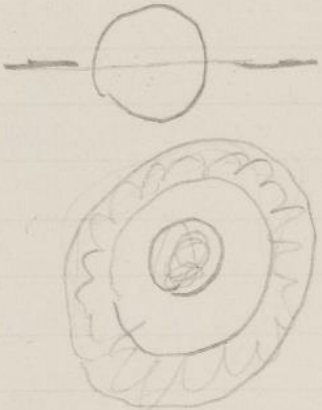
v1b

The following notes were made June 5

Call attention to fact that I have not seen 7944 T Pegasi although max. predicted for 94/May.

5776 X Scorpii has passed max. a month before predicted. Look up & send to Camb.

See chart of R Persei (Cambridge)



Tuesday June 5 1894

13.8 7609 ✓ T Cephei
e 5 v
v 1 f
v = 7.5

14.1 7779 ✓ S Cephei
~~b~~ h 1-2 v
v = 9.

14.2 8600 ✓ R Cassiop
~~m~~ l 1-2 v
v 5 m
v = 8.0

14.4 5157 ✓ S Boötis
c 1-2 v
v 2 d
v = 8.5

passing clouds make obs ± 1-2 grades.

14.6 7468 ✓ T Aquarii
7 invisible < 11.

14.7 ✓ S Sagittae
b 4 v
v = g
v = 7.

Day Light.

~~Wednesday~~ Thursday June 7 1894

night of Tyer's Reception.

12.3 5831 ✓ S Scorpii

α 7-8 v

R Scorpii 3 v

v = 12

12.3 Seen only occasionally by glimpses

5830 ✓ R Scorpii

α 5 v

v = 11.8

12.3 5826 ✓ T Scorpii

Invisible.

12.5 6636 ✓ U Sagittarii

v = g

v 2 γh

v 4 α

v = 7.5

(6633?) ✓ V Sagittarii

12.6 α 5 v

v = β

v = 8.5

12.8 6905 ✓ R Sagittarii

b 3 v

v 3 c

v > 7.5

13.0 6$\overset{9}{\cancel{7}}$21 ✓ S Sagittarii

✗

o 6 α

α 4 β

v 4 β

α 2 v

v = 10.

Thursday June 7 1894

13.4 7045 R Cygni

π 4 v

v 2 μ

v = 7.8

13.5 7085 RT Cygni

m = v

v 5 d

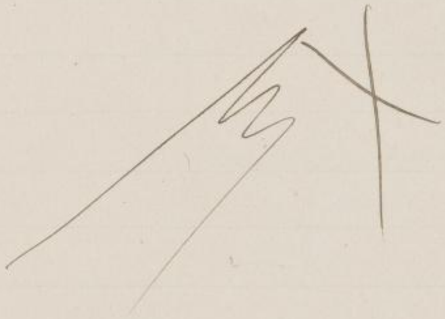
v = 7.5

13.6 7192 Z Cygni

ρ φ 2 v

v 2 ξ

v = 7.5



~~v 3 η~~ η 3 v

ρ θ = η

ρ θ 5 k

k 3 ξ

ξ 4-5 ξ

ξ 4.5 β

β 3 α

α 3 γ

γ 3 δ

δ 5 ε

ε 6 λ

λ 5 θ

14.2 7299 U Cygni

γ 2 v

v = 8.

14.4 7351 RW Cygni

~~k~~ 5-6 v

l 2 v

v = m

v = 9.5

Thursday June 7 1894

14.5 ✓ β Lyrae

$\underline{k}$ 3 β

β = $\underline{\zeta}$

✓ β 3 $\underline{\delta}$

14.6 ✓ R Lyrae

0 3 $\underline{v}$

$\underline{v}$ = k

$\underline{v}$ 1-2 ζ

✓ $\underline{v}$ 3 δ

14.7 ✓ δ Ophii

γ 4 v

v 3 ζ.

Wednesday June 13 1894

9.7 3477 R Leonis Minor.

p 1 v
v 3-4 q
v = 9.
q 4-5 δ
δ 7 r
x invisible

M

11.0 4315 R Comae
invisible < 11.
δ invisible

M

11.3 5156 X Bootis
v 2 k
v = 8.5

11.5 R ~~β~~ Lyrae
ℓ = 1 v
v 2 o

11.6 β Lyrae.
ℓ 1 v
v 3 o

12.2 5237 R Bootis
ex = v
v < f
v = 7.

clouds make obs somewhat doubtful

Wednesday June 13 1894

12.3 7428 ✓ V Cygni

V = ~~12~~ 11.7

v = α

M

Thursday June 14 1894

12.7 7437 √ X Cygni m
v 4 m
v = 6.7

12.9 7456 √ RR Cygni
m 3 v
v 4 m
v = 8.1

13.1 7783 √ RU Cygni
z 2 v
v 2 n
v = 9.

b 1 d
b 1 g
g 6 3
b 6 k
c 6 m
m 6 b
~~k~~ m 6 k
k 3 d

Friday June 15 1894

M

3825 √ R Ursae Maj
invisible

4557 √ S Ursae Maj
v 3 f
v = 8

4511 √ T Ursae Maj
invisible

12.9 5157 √ S Boötis
c 7 v
v 2-1 d
v 2 c
v = 7

June 16   1894 Wednesday.

m

12.0   7259 ✓ RS Cygni
R 4 v
v 3 h
v = 7.

13.1   7795 ✓ RV Cygni
v 1 m
v 3 n
v = 8.5

13.4   112 ✓ R Andromedae
n = v
v 3 o
v = 9.

13.5   243 ✓ U Cassiop
✓ π 4 v
v 2 d.
v = 8.

13.7   678 ✓ U Persei
d 4 v
v 3 e
v = 8.

June 22 Friday 1894

Mags subst cont.

Tuesday June 26 . 1894

11.4 5338 √ U Boötis
n 2 v
v 3 o
v = 10.5

11.6 5593 √ W Librae
v seen occasionally by glimpses
p 3-4 v
v = 11.5

11.9 5830 √ R Scorpii
o = 1 v
v 3 p
v = 9.5

12.0 5826 √ T Scorpii
invisible

12.2 6905 √ R Sagittarii
b 3 v
v 2 c
v = 7.5

12.3 6921 √ S Sagittarii
o 6 v
v 1 = l
v = 9.5

2412980
26
2413006

Tuesday July 3 1894

9.2 107 ✓ T Cassiop.

~~d = v~~

v = e (about)

passing clouds make obs not precise..

9.4 8600 ✓ R Cassiop.

e 2 v

v 2 f

v = 6.

10.7 7779 ✓ S Cephei

e 4-5 v

v = f

v = 8.

10.8 7609 ✓ T Cephei

e 4-5 v

v 4-5 f

v = 7.

11.1 5955 ✓ R Draconis

p 3 v

v 1-2 q

v = 11.

11.2 5190 ✓ R Camelop.

invisible,

11.5 ✓ 5157 S Bootis

e 6 v

v 2-3 f

v = 8.

11.6 4557 ✓ S Ursae Maj

~~e~~ v 2 f

v = 8.

Tuesday July ~~4~~ 3 1894

12.2 5338 ✓ U Boötis
n 2 v
v 4 o
v = 9.5

12.6 ✓ δ Cephei
γ 2 v
v 5 ξ

14.0 ✓ β Lyrae
ζ 2 v
v = δ

6905 ✓ R Sagittarii
c = v
v 3 d
v = 7.5

14.3 6921 ✓ S Sagittarii
o 6-7 v
α = v
v 6 β
v = 10.

14.4 7468 ✓ T Aquarii
β 3 v ± (circum)
v = 10.5

14.5 ✓ 8512 R Aquarii
c = v
v 5 d
v = 6.5

14.6 8597 ✓ V Ceti
invisible (Z)

Tuesday July ~~4~~ 3 1894 (mwl July 4 1894)

✓ η Aquilae
β 1-2 v
v 4 ε

14.7 ✓ R Lyrae
x = v
v 2 o
v 6 ξ

15.0 ✓ S Sagittae
h 3 v
v 1-2 c

Looked up position of R Scuti and am sure in consequence that I am observing the right star.

✓ R Scuti
f < v
v > g

Recorded from memory ~~June~~ July 4'94. Mwl.

Wednesday July 4 1894

14.3 ✓ β Lyrae

$\alpha - \zeta = v$

v 3 0

14.3 ✓ R Lyrae

$\underline{v}$ 5 $\underline{\beta}$

v 1 $\underline{\chi}$

$\underline{v}$ 1-2 0

ζ 3 $\underline{v}$

14.4 ✓ η Aquilae

β 3 v

v 2 ε

14.5 ✓ δ Cephei

ζ 5-6 v

v 3 ζ

14.6 ✓ α Herculis

v 1 e′

v 1 d

a 3 v

Thursday July 5 1894

8.9 2478 ✓ R Lyncis
d 3 v v = 7.0 m Z

9.2 4492 ✓ Y Virginis
v 2 k
v = 8.5

9.4 4816 ✓ V Virginis
k 5 v
v = l
v 7 m
v = 8.

9.5 4805 ✓ W Virginis
k 5 v
v 1-2 l
(W Vir) = (V Virginis)
v = 8.

9.7 4940 ✓ W Hydrae
v 2 α
v 6 β
v = 6.0

9.8 5249 ✓ V. Librae
v invisible < 12.

10.3 5494 ✓ S Librae
h 1 v
v 4 k
v = 8.

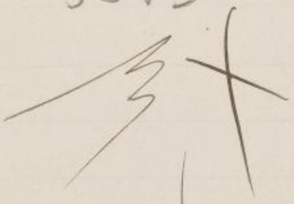
10:33 Meteor 9 mag. w 10°S medium trail 40' long. Red = 5
S.T. 17:40 ha 2h 10m W $\alpha = 15^h 30^m$ $\delta = -21°$.

5583 ✓ X Librae
invisible < 12

n 1 m
m 5.0

Thursday July 5 1894

5583 X Sagittae



o 6 p
p 3 q
q = 11.5
o' 1 magn. > o

11.1 5617 U Sagittae
t = v
v 6 u
v = 11.5

11.4 5644 Z Sagittae
R = v Am I obs. the right star?
v 2 s
v 5 t
v = 10.5

5704 RR Sagittae

h 3 k
k 6 l
l 6 m
m 4 n
h 3 v
v = k
v 6 l
11.7 v = 7.

5776 X Scorpii
v Invisible < 12

e 5 f
f 4 g
g 3 h
h 4 k

Thursday July 5 1894

5830 √ R Scorpii
m 5 v
v = n
v 3 n
v = 8.5

12.1 √ S + T Scorpii
5831 5826 invisible < 11.5

6834 √ V Aquilae
α 2 v
12.2 ☞ v 6 β
v = 6.5

δ 10 γ
γ 1 α
α 8 β
α = 9.

12.5 8512 √ R Aquarii
b 3 v
v 2 e
v = 6.5

12.7 5237 √ R Bootis
v 2 a
v = 7.

13.0 5770 √ R Herculis
α 5-6 v
v 1 β
v = 11.

13.1 5889 U Herculis
k 3 v
v 2 l
v = 7.

Sent to Camb.

Thursday / July 5 1894

6849 ✓ R Aquilae

n 7 o
o 4 p
m 4 n
k 3 l
l 5 m
v 1 k
v 6 l
v = 6.

13.8 ✓ β Lyrae
γ 3 β
β 3 ξ

14.0

14.2 7261 ✓ R Delphini
v = α
v = 7.8

14.4 243 ✓ U Cassiop.
π = v.
v 3 α
v = 7.8

π 5 α
α ~~γ~~ 10± β
β 3 φ
φ 3 δ
δ 3 ε
ε 4 I
α 4 ψ
ψ 5 β

14.8 ✓ 678 U Persei
f 2-3 v
v 3-2 g
v = 6.8.

Twilight

Thursday July 5 1894

✓ δ Cephei

ε 4-5 ~~7~~ v

v ~~7~~ 1 ζ

14.9 ✓ η Aquilae

ε 2 v

v 3 ~~θ (mu)~~ ι

Saturday July 7 1894

10.1 5338 √ U Boötis
m 3 v
v 1-2 m
v = 9.5

10.3 5194 √ V [illegible] Boötis
h 2 v
v 3 k
v = 7.5

10.6 5675 √ V Coronae
β 2 v
v 2 γ
v = 8.

11.2 7045 √ R Cygni
π 4 v
v 2 μ
v = 7.

11.3 7085 √ RT Cygni
m 5 v
v 3 α.
v = 7.

β 5 m
m 6 α
α 6 γ
γ 6 δ
δ 2-3 ε
ε 6 a
a 4 k
k = b
k 5 ξ
ξ 4 η
η 3 θ

θ 2-3 o
o 3 π

Saturday July 7 1894

12.4 ✓ 7192 Z Cygni

$\xi = v$

$v\ 2\ \beta$

$v = 7.5$

13.2 ·7783 ✓ RU Cygni

$\alpha\ 5\ v$

$\eta\ 5\ v$

$v\ 1\ \beta$

$v =$ ~~8~~ 7.5

13.4 8068 ✓ S Scutum

h 6 v

v 3 l

v = 11.

$\beta\ 4\ g$

g 7 b

b 6 a

a 1 c

c 3 d

d 4 e

e 3 f

f 2 h

1279 ✓ +62°.596

14.0 d 5 v

v 2 e

v = 7.

Meteor motion N 15 E. 8.5^{mag} ○ Red trail 30′

14.4 ST $21^h\ 20^m$ h.a. $4^h\ 50^m$ E $\alpha\ 2^h\ 15^m$ $\delta = +59°$

814 ✓ S Persei

$d'\ 1 = v$

v 1 d

v = 8.

Saturday July 7 1894

Aurora

14:12 faint patches near horizon in North.

1855 √ $ R Aurigae

e 6 v

v 2 f

√ v = 7.8

β Lyrae

14.3 β 1-2 γ

√ R Lyrae

v 2 v

v 2 o

v 5 ζ

√ η Aquilae

β 4 η

η 1 ε

√ δ Cephei

14.5 ζ 1 v

√ R Scuti

f 2 v

v 2 g.

√ S Sagittae

c = v

v 2 b

v = 6.

√ g Herculis

14.6 ε 1 = v

v 1 ε

v = 5.4

~~Sat~~ Sunday July 8 1894

11.1 5903 ✓ Y Scorpii
g 4 v
v 3 h
v = 11..

11.4 5928 ✓ T Ophiuchi
invisible

Monday July 9. 1894

11.5 √ 5931 ~~5928~~ S Ophiuchi

l ~~k~~ 2 v

v 4 m / v = 9.

11.8 6636 √ U Sagittarii

v 2 g

v 4 h

v = 9.

11.9 6633 √ V Sagittarii

α 5 v

v = β v = 8.

12.1 7733 √ Y Capricorni

I think I see var. by glimpses

m 5-6 v v = 12.

12.2 7907 √ U Aquarii

c' 5 v

v 1 c

v 4-5 b v = 9.

12.4 8290 √ R Pegasi

β 6 v

δ 1 v v = 7.5

8^{mag} o Red slow Meteor

12:34 N 30 E S.T. 19:58 / h a 6:49^m W $\alpha = 13^h\ 8^m$ $\delta = +38°$

4731 √ S Canum Ven

m 1-2 v

12.7 v 2 o / v = 9.

12.7 5501 √ S Serpentis

h 3 v

v = ~~k~~ k

v 4 l v = 9.

5504 √ S Coronae

o = v

v 3 α

v = 8.7

Monday July 9 1894

5758 χ Herculis

13.3 v=5.8 e5v Op.
v1=f

5950 W Herculis

13.6 I think I catch glimpses of var and b.
v=b v=12.

13.7 6005 S Draconis
k' k3l' l'3v
l'5l v1l, v=7.8

13.8 6512 T Herculis
m1v
l6v v=8.7.

14.1 7351 RW Cygni
l4v
v1=m v=9.

1~~3~~4.3 7428 V Cygni
Invisible

1~~3~~4.6 7437 X Cygni
v=m
v2m v=7.0

1~~4~~4.7 β Lyrae
ξ 2v
v1.0

14.7 R Lyrae
γ2v
v1x
v20
v5b
ξ3v

14.8 η Aquilae
β=v.
δ6v
v6ε

Sent to Cerulli.

Monday July 9 1894

14.9 ✓ δ Cephei.

ζ6v

v4ε

✓ μ Cephei

ν4v

v1γ

15.0 ✓ δ Sagittae

b3v

v1γ

Tuesday July 10 1894

9.8 3825 ✓ R Ursae Majoris

g 5 v

v 3 h v = 7.5

25.2
22.2
23.7
8.27

9.8 4511 ✓ T Ursae Maj

g 5 v

✓ v 1 h v = 8.

~~27.8~~
~~25.3~~
~~53.1~~
~~26.6~~ ~~9.42~~

9.9 ✓ 4557 S Ursae Maj

e 2 v

✓ v 4 f v = 7.5

14.9
15.1

15.0
676
8.26

10.0 5157 ✓ S Boötis

f 3-4 v

✓ v 3 g v = 8.

10.4 7456 ✓ RR Cygni

m 6 v

v = m v = $8,\overset{0}{5}$

11.0 no Aurora

✓ 1981 S Camelop.

v 3 d v = 8.5

Sei klein

b 3 a
d 1 = c
d 1 e
g 3 f
h = k
l 1 m
n 3 o
o 3 p
q 1 d
q = o
d 1 R
R 1 e

s = t
t 1 = h
w 2 v

Tuesday July 10 1894

107 ✓ T Cassiop

e ? d 4 v

v = f   v = 7.8

20.2
~~13.7~~
18.9
39.1

628
19.6
8.24

12.9 432 ✓ S Cassiop

0 5 v

v 1 p

v 6 q

v = 10.5

13.0 no Aurora

S.T. 20^h 31^m

S ~~seen~~ steadily = 11.5

t ~~w~~ by glimpses = 12.0

8600 ✓ R Cassiop

13.4 v = 6.0   e' 2 v

v 1 e

d 6 v

13.7 7779 ✓ δ Cephei

d 6 v

v 2 e   v = 7.8

14.1 ✓ 906 R Trianguli

f 3 v

v 3 g   v = 7.5

14.2 1222 ✓ R Persei

× β 6 v

v 2 h   v = 7.8

14.3 194 ✓ S ~~Ceph~~ Ceti

Invisible < 11.

14.5 ✓ β Lyrae

ζ = v

v 3 0

checked X to date

~~Thursday~~ Tuesday July 10 1894

14.6 ✓ R Lyrae

x 3 v

y 2-3 v

v 4 $\overset{6}{5}$

ξ 3 v

✓ v 1.0

14.7 ✓ δ Cephei

δ 5 ζ

✓ ζ 3 δ

✓ η Aquilae

β = v

v 6 e

✓ μ Cephei

e 5-6 v

✓ v 1 ζ

14.8 5758 ✓ X Herculis

e 1 v

✓ v 2 f v = 6.0

14.9 ✓ S Sagittae

b 4 v

v = g. v = 7.0

Saturday July 14 1894

9.1 107 √ T Cassiop. m

$\underline{e}$ 5 v 21.2

f 1 = $\underline{v}$ 19.4 20.2

625.

v 3 g 20.1 8.30;-024

v = 8.3

9.3 7609 √ T Cephei m

d 5 v

v 2 e

v = 7.

9.4 7220 √ S Cygni m

invisible

9.5 5157 √ S Boötis

e 5 v

v = f

v = 9.5 m

passing clouds make obs. uncertain.

10.3 5194 √ V Boötis m

h 3 v

v 1-2 k

v = 8.

10.7 5675 √ V Coronae

β = v

v 3 γ

v = 8.

10.7 7045 √ R Cygni

π 4 v

v 2 μ

v = 7.5

Saturday July 14 1894

10.9 7085 RT Cygni m

m 6 v

v = α

v 7 ± γ

v = 6.8

✓ 7192 ✓ Z Cygni

11.0 ξ 4 v

v = β

v 3 α

v = 8.

✓ 7299 U Cygni

v = 8.

δ 3 v

v = 5

✓ 7783 ✓ RU Cygni

11.3 d 1 v m

α 1 v

v 3 β

v = 7.5

Tuesday July 17 1894

M

11.0 5237 √ R Bootis
e = v
v 4 f
v = 7.5

11.4 5889 √ U Herculis
m 2 v
v 3 n
v = 7.8

11.7 6849 √ R Aquilae
K = v
v = 6.

√ 7261 R Delphini
β 3 v
v 4 α

12.1

v = 7.

12.3 6834 √ V Aquilae
α 2 v
v = 7.

12.7 ~~243~~ √ U Cassiop
v 1 π
v 3 α
v = 7.8

13.2 √ 678 U Persei
f 6 v
v = 9
v = 8.5

20
19 19.5 9.4 mgn.

no Aurora.

Light clouds.

Tuesday July 17 1894

√1279 Camelop

13.5

d 4 v 4.0 m.m. 7.57

v 3 e 4.3 4.2

v = 7.5

M

14.0 8153 √R Sagittae

β 6 v

v 1 δ

v = 9.

842
1060
1902
.951

Wednesday July 18 1894

9.0 no Aurora

5430 ✓ T Librae

too near horizon

9.3 5156 ✓ X Bootis

a x^3 v

v 1 K

v = 8.5

haze makes obs doubtful.

9.4 5667 ✓ R Coronae

invisible < 8.5

R visible.

9.5 5677 ✓ R Serpentis

invisible < 8.5.

6044 ✓ S Herculis

y 2 v

v 5 0

9.8 v = 8.5

10.0 no Aurora

clouds

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m

11.3 No Aurora

11.6 √ 6682 χ Ophiuchi
μ 4-5 v
v = 5

11.7 6624 √ T Serpentis
invisible < 8.5

11.7 6726 √ T Aquilae
k 1 v
v 1 & h
v 6 l
v = 8.5

k 3 h

12.2 (6943) T Sagittae
g 4 v
v 2 k h
v = 7.5

h 6 k

12.3 No Aurora

12.3 7106 √ S Vulpeculae
l 2-1 v
v 4 m
v = 8.5

12.4 7242 √ S Aquilae
β 2 v
d 7-8 v
v = 9.

12.5 7257 √ R Sagittae
h 6 v
v 1 k
v = 9.

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7431 √S Delphini
12.8 m 5 v
v=10.

m

7446 √U Delphini
ζ 4 v
12.9 v 1 η
√ v=6.5

13.4 8290 √R Pegasi
β 4 v
v 2 δ
√ v=7.0

6005 √S Draconis
13.6 l² 6 v
√ v 2 l
v=8

6512 √ T Herculis
13.7 invisible <9.

13.7 7259 √RS Cygni
p 3 v
√ v 1 o
v=7.5

13.9 7351 √RW Cygni
k 6 v
l 3 v
√ v 2 m
v=9.

14.1 7437 √X Cygni
l 2 v
v 2 l
v 6 m
v=6.

m

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no Aurora

14.0 7456 RR Cygni

m 3 v

v 1 m

v = 8.5

14.2

14.4 7795 RV Cygni

l 2 v

v 4 m

v = 7.

Mn